

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 01 Steamboat Slough			Right	6.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/13/2018 - 3/13/2018			
DWR Inspector	Keith Millard			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start		Rating **	A	Issue No.	57
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0501_01_f_2014_57				
Comment Code					
Inspector Comment					
District has the O&M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	58
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0501_01_s_2012_58				
Comment Code					
Inspector Comment					
RD 501 has emergency supplies in storage.					

No Photos

LM Start		Rating **	A	Issue No.	59
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0501_01_s_2012_59				
Comment Code					
Inspector Comment					
Crew members have been trained and are prepared for a flood.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.04	Rating **	M	Issue No.	979
LM End	0.04	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.254035 °	38.254035 °	
			-121.601757 °	-121.601757 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44878 DS_ID:21096 EP_NO: 3635 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Marker missing on waterward side--need to contact owner. FIELD_STRUCT_DESC: 2.5-inch steel telephone conduit through the levee, 3 feet below the crown. Pole at the landside (LS) toe. Rock revetment on the waterside (WS) slope. (Plans for installation of a submarine cable through both levees and under the channel authorized under Permit No. 3635, 1961 - Delta Telephone and Telegraph Company [DT&T]. Plans to bury a submarine cable across the channel authorized under Permit No. 5412, 1966 - General Telephone Company of California). FS Date: 6/13/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.19	Rating **	U	Issue No.	980
LM End	0.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252140 °	38.252140 °
				-121.602902 °	-121.602902 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50063
DS_ID:21030
EP_NO: 4581
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Sacramento County has re-paved road and patch is no longer present. Crossing remains to be Urgent due to the unknown condition of the section of the levee along pipe alignment. Unable to determine if any internal erosion is present along pipe. According to LMA representative, Stacy Boyd, no additional sink holes have developed since 2013. No sink holes have been noticed since PVC pipe was sleeved through existing steel pipe. Permit authorizing work is not available. Need to identify current owner. Owner will need to coordinate with CVFPB to remove or abandon crossing per Title 23 requirements. (DWR UCIP - omagana)6/04/2013 Damage present on levee crown--unable to confirm if damage due to leak in pipe. Signs of repair work on crown, however, no permit found to document recent damage to levee or repair work. New PVC pipe has been sleeved through the existing 6-inch pipe. Unable to determine if crossing is still in use, if not, crossings needs to be removed according to CVFPB Title 23 requirements. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, 2.5 feet below the crown. 2-inch steel electrical conduit through the levee, at an unknown depth. Cutoff wall around the pipe at the center of the levee. Pump and gate valve in a pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. Pipe is exposed on each slope. (Plans for removing and replacing an irrigation pipe through the levee authorized under Permit No. 4581, 1964 - Walter Light). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.2), 7-inch pipe, 2.6 feet below the crown, referenced].
FS Date: 8/22/2016

Photo 1 of 3 : UCIP_SP_2018_50063_58923.jpg



View of crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.19	Rating **	U	Issue No.	980 (cont)
LM End	0.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252140 °	38.252140 °
				-121.602902 °	-121.602902 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:50063
DS_ID:21030
EP_NO: 4581
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Sacramento County has re-paved road and patch is no longer present. Crossing remains to be Urgent due to the unknown condition of the section of the levee along pipe alignment. Unable to determine if any internal erosion is present along pipe. According to LMA representative, Stacy Boyd, no additional sink holes have developed since 2013. No sink holes have been noticed since PVC pipe was sleeved through existing steel pipe. Permit authorizing work is not available. Need to identify current owner. Owner will need to coordinate with CVFPB to remove or abandon crossing per Title 23 requirements. (DWR UCIP - omagana)6/04/2013 Damage present on levee crown--unable to confirm if damage due to leak in pipe. Signs of repair work on crown, however, no permit found to document recent damage to levee or repair work. New PVC pipe has been sleeved through the existing 6-inch pipe. Unable to determine if crossing is still in use, if not, crossings needs to be removed according to CVFPB Title 23 requirements. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, 2.5 feet below the crown. 2-inch steel electrical conduit through the levee, at an unknown depth. Cutoff wall around the pipe at the center of the levee. Pump and gate valve in a pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. Pipe is exposed on each slope. (Plans for removing and replacing an irrigation pipe through the levee authorized under Permit No. 4581, 1964 - Walter Light). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.2), 7-inch pipe, 2.6 feet below the crown, referenced].
FS Date: 8/22/2016

Photo 2 of 3 : UCIP_SP_2018_50063_58922.jpg



Subsidence and patch work repair on crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.19	Rating **	U	Issue No.	980 (cont)
LM End	0.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252140 °	38.252140 °
				-121.602902 °	-121.602902 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50063
DS_ID:21030
EP_NO: 4581
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Sacramento County has re-paved road and patch is no longer present. Crossing remains to be Urgent due to the unknown condition of the section of the levee along pipe alignment. Unable to determine if any internal erosion is present along pipe. According to LMA representative, Stacy Boyd, no additional sink holes have developed since 2013. No sink holes have been noticed since PVC pipe was sleeved through existing steel pipe. Permit authorizing work is not available. Need to identify current owner. Owner will need to coordinate with CVFPB to remove or abandon crossing per Title 23 requirements. (DWR UCIP - omagana)6/04/2013 Damage present on levee crown--unable to confirm if damage due to leak in pipe. Signs of repair work on crown, however, no permit found to document recent damage to levee or repair work. New PVC pipe has been sleeved through the existing 6-inch pipe. Unable to determine if crossing is still in use, if not, crossings needs to be removed according to CVFPB Title 23 requirements. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, 2.5 feet below the crown. 2-inch steel electrical conduit through the levee, at an unknown depth. Cutoff wall around the pipe at the center of the levee. Pump and gate valve in a pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. Pipe is exposed on each slope. (Plans for removing and replacing an irrigation pipe through the levee authorized under Permit No. 4581, 1964 - Walter Light). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.2), 7-inch pipe, 2.6 feet below the crown, referenced].
FS Date: 8/22/2016

Photo 3 of 3 : UCIP_SP_2018_50063_58924.jpg



Overview of WS--pump, abandoned pipe section, and conduit.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.28	Rating **	A/W	Issue No.	27
LM End	0.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.250809 °	38.250809 °
				-121.603119 °	-121.603119 °
DWR ID	DWR_RD0501_01_f_2017_27				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim fig trees to allow inspection and access to landside slope and toe.					

Photo 1 of 1 : SP_2018_RD0501_169_27_20180305_00004.jpg



Trim fig trees to allow inspection and access to landside slope and toe.

LM Start	0.31	Rating **	A/W	Issue No.	28
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.250340 °	38.250340 °
				-121.603133 °	-121.603133 °
DWR ID	DWR_RD0501_01_f_2017_28				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim trees at landside toe to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0501_169_28_20180305_00005.jpg



Trim trees at landside toe to allow inspection and access.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.39	Rating **	M	Issue No.	981
LM End	0.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249197 °	38.249197 °
				-121.603061 °	-121.603061 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32524
 DS_ID:21031
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of leaks through the slope. Recommend removing vegetation along pipe alignment for reinspection. Need to contact the owner to clear slope along crossing.
 FIELD_STRUCT_DESC: 20-inch irrigation discharge pipe of an unknown material and a 2.5-inch electrical conduit of an unknown material through the levee, both 7.8 feet below the crown. Pump and gate valve in a pump house on the landside (LS) slope. Pipe exposed along the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.4), irrigation siphon referenced].
 FS Date: 6/4/2013

LM Start	0.39	Rating **	M	Issue No.	981 (cont)
LM End	0.39	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_32524_58928.jpg



View of crown

Photo 2 of 3 : UCIP_SP_2018_32524_58927.jpg



Overview of landside. Pump house and power pole visible on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.39	Rating **	M	Issue No.	981 (cont)							
LM End	0.39	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		38.249197 °	38.249197 °								
			-121.603061 °	-121.603061 °								
DWR ID												
Comment Code												
Inspector Comment												
FS_ID:32524 DS_ID:21031 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of leaks through the slope. Recommend removing vegetation along pipe alignment for reinspection. Need to contact the owner to clear slope along crossing. FIELD_STRUCT_DESC: 20-inch irrigation discharge pipe of an unknown material and a 2.5-inch electrical conduit of an unknown material through the levee, both 7.8 feet below the crown. Pump and gate valve in a pump house on the landside (LS) slope. Pipe exposed along the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.4), irrigation siphon referenced]. FS Date: 6/4/2013												

Photo 3 of 3 : UCIP_SP_2018_32524_58925.jpg



Crown hinge point damaged, roadway section missing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.44	Rating **	M	Issue No.	982
LM End	0.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.248519 °	38.248519 °
				-121.602972 °	-121.602972 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41409					
DS_ID:21032					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner and ask for emergency					
contact information and permit number. 8/21/13 Contacted Gas					
Control Division under the emergency contact No. 1-877-723-3344.					
Message has been forward to Brian Habersack at 916-859-4700, email:					
bhabsack@gasbiz.com.					
FIELD_STRUCT_DESC: 6-inch steel natural gas pipeline under the					
levee, 60 feet below the crown. Gas line marker on each shoulder.					
(Plans to install a 6-inch steel natural gas pipeline across and bored					
under the channel and each levee authorized under Permit No. 17033,					
1999 - Delta Gas Gathering, Inc., and A. A. Production Services, Inc.).					
[Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 6/4/2013					

Photo 1 of 3 : UCIP_SP_2018_41409_58931.jpg



Overview of waterside at crossing. Marker on shoulder.

LM Start	0.44	Rating **	M	Issue No.	982 (cont)
LM End	0.44	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_41409_58930.jpg



Overview of landside at crossing. Marker on shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.44	Rating **	M	Issue No.	982 (cont)	
LM End	0.44	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.248519 °	38.248519 °	
				-121.602972 °	-121.602972 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41409 DS_ID:21032 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner and ask for emergency contact information and permit number. 8/21/13 Contacted Gas Control Division under the emergency contact No. 1-877-723-3344. Message has been forward to Brian Habersack at 916-859-4700, email: bhabersack@gasbiz.com. FIELD_STRUCT_DESC: 6-inch steel natural gas pipeline under the levee, 60 feet below the crown. Gas line marker on each shoulder. (Plans to install a 6-inch steel natural gas pipeline across and bored under the channel and each levee authorized under Permit No. 17033, 1999 - Delta Gas Gathering, Inc., and A. A. Production Services, Inc.). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/4/2013						

Photo 3 of 3 : UCIP_SP_2018_41409_58932.jpg



Gas line contact information on the sign.

LM Start	0.68	Rating **	M	Issue No.	18
LM End	0.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.245010 °	38.244523 °
				-121.602955 °	-121.602940 °
DWR ID	DWR_RD0501_01_s_2012_18				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim the trees on the landside levee slope five feet above the ground.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.70	Rating **	M	Issue No.	983	
LM End	0.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.244726 °	38.244726 °	
				-121.602900 °	-121.602900 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44643 DS_ID:21089 EP_NO: 2683 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2-inch steel water pipe and a 1-inch steel electrical conduit through the levee, both 3 feet below the crown. Portion of pipe visible under the oleanders on the landside (LS) shoulder, may be part of this crossing. No evidence remains on the waterside (WS) slope. (Plans for installation of an electrical conduit and a water pipe through the levee authorized under Permit No. 2683, 1957 - John Gosner). FS Date: 4/21/2015						

LM Start	0.70	Rating **	M	Issue No.	983 (cont)
LM End	0.70	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44643_73842.jpg



Pipes visible under oleander on LS shoulder.

Photo 2 of 3 : UCIP_SP_2018_44643_73841.jpg



Pipes visible under oleander on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.70	Rating **	M	Issue No.	983 (cont)	
LM End	0.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.244726 °	38.244726 °	
				-121.602900 °	-121.602900 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44643 DS_ID:21089 EP_NO: 2683 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2-inch steel water pipe and a 1-inch steel electrical conduit through the levee, both 3 feet below the crown. Portion of pipe visible under the oleanders on the landside (LS) shoulder, may be part of this crossing. No evidence remains on the waterside (WS) slope. (Plans for installation of an electrical conduit and a water pipe through the levee authorized under Permit No. 2683, 1957 - John Gosner). FS Date: 4/21/2015						

Photo 3 of 3 : UCIP_SP_2018_44643_73840.jpg



Pipes visible under oleander on LS shoulder.

LM Start	0.70	Rating **	M	Issue No.	71
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.244667 °	38.237470 °
				-121.602967 °	-121.604418 °
DWR ID	DWR_RD0501_01_s_2012_71				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are rodents present in this area, district need to place bait stations in this area. Seveeral rodents observed on 10/24/17.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.76	Rating **	M	Issue No.	29
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.243815 °	38.240257 °
				-121.603077 °	-121.603873 °
DWR ID	DWR_RD0501_01_f_2017_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Landside slope is covered in blackberry vines. Should be removed to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0501_169_29_20180305_00006.jpg



Landside slope is covered in blackberry vines. Should be removed to allow inspection and access.

LM Start	0.97	Rating **	M	Issue No.	984	
LM End	0.97	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.240808 °	38.240808 °	
				-121.603628 °	-121.603628 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50020 DS_ID:21034 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent -- no evidence of damage to levee is present. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through he slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also will need to coordinate with owner to determine if permit was obtained for the modifications made to crossing (PVC pipe sleeved through existing pipe). (DWR UCIP - omagana)4/21/2015 Unauthorized PVC pipe. Annular space not grouted. 14-inch pipe open on both ends. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 14-inch steel irrigation siphon pipe through the levee, 3.2 feet below the crown. 10-inch polyvinyl chloride (PVC) pipe sleeved through the 14-inch pipe. Siphon breaker on the landside (LS) shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 1.0)]. FS Date: 8/22/2016						

Photo 1 of 3 : UCIP_SP_2018_50020_75648.jpg



View of levee crown and LS shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.97	Rating **	M	Issue No.	984 (cont)	
LM End	0.97	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.240808 °		38.240808 °
				-121.603628 °		-121.603628 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50020 DS_ID:21034 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent -- no evidence of damage to levee is present. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also will need to coordinate with owner to determine if permit was obtained for the modifications made to crossing (PVC pipe sleeved through existing pipe). (DWR UCIP - omagana)4/21/2015 Unauthorized PVC pipe. Annular space not grouted. 14-inch pipe open on both ends. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 14-inch steel irrigation siphon pipe through the levee, 3.2 feet below the crown. 10-inch polyvinyl chloride (PVC) pipe sleeved through the 14-inch pipe. Siphon breaker on the landside (LS) shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 1.0)]. FS Date: 8/22/2016						

LM Start	0.97	Rating **	M	Issue No.	984 (cont)
LM End	0.97	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_50020_75647.jpg



View of levee crown looking at waterside.

Photo 3 of 3 : UCIP_SP_2018_50020_75645.jpg



Dense vegetation covers WS--pipe slightly visible through vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	1.01	Rating **	M	Issue No.	31
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.240222 °	38.238918 °
				-121.603887 °	-121.604338 °
DWR ID	DWR_RD0501_01_f _ 2017_31				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Waterside vegetation should be thinned/removed to 20' from crown to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0501_169_31_20180305_00008.jpg



Waterside vegetation should be thinned/removed to 20' from crown to allow inspection and access.

LM Start	1.84	Rating **	M	Issue No.	985	
LM End	1.84	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.228373 °	38.228373 °	
				-121.604120 °	-121.604120 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47516 DS_ID:21086 EP_NO: 13233 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between pipes not grouted. FPIIB Inspector Herman Phillips will contact owner regarding lack of permit for sand filters. Steel plate partially covers openings between pipes. FIELD_STRUCT_DESC: 14-inch coated steel irrigation discharge pipe through the levee, 2.5 feet below the crown. 8-inch steel pipe sleeved through the 14-inch pipe. Cutoff wall around the pipe at the center of the levee. Pump and check valve in a pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. A 1.5-inch and a 2.5-inch electrical conduits at the same location. Siphon breaker on each shoulder. (Plans to replace a 12-inch irrigation pipe through the levee authorized under Permit No. 11813, 1976 - Harry H. Rasmussen. Plans to replace irrigation pipe with a 14-inch pipe through the levee authorized under Permit No. 13233, 1981 - Harry H. Rasmussen. Plans to install an 8-inch steel pipe through an existing 14-inch pipe through the levee authorized under Permit No. 11813-1, 2013 - Matt Davis). FS Date: 4/21/2015						

Photo 1 of 3 : UCIP_SP_2018_47516_73857.jpg



Sand filter plant on LS toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	1.84	Rating **	M	Issue No.	985 (cont)
LM End	1.84	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.228373 °	38.228373 °
				-121.604120 °	-121.604120 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47516
DS_ID:21086
EP_NO: 13233
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Annular space between pipes not grouted. FPIIB Inspector Herman Phillips will contact owner regarding lack of permit for sand filters. Steel plate partially covers openings between pipes.
FIELD_STRUCT_DESC: 14-inch coated steel irrigation discharge pipe through the levee, 2.5 feet below the crown. 8-inch steel pipe sleeved through the 14-inch pipe. Cutoff wall around the pipe at the center of the levee. Pump and check valve in a pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. A 1.5-inch and a 2.5-inch electrical conduits at the same location. Siphon breaker on each shoulder. (Plans to replace a 12-inch irrigation pipe through the levee authorized under Permit No. 11813, 1976 - Harry H. Rasmussen. Plans to replace irrigation pipe with a 14-inch pipe through the levee authorized under Permit No. 13233, 1981 - Harry H. Rasmussen. Plans to install an 8-inch steel pipe through an existing 14-inch pipe through the levee authorized under Permit No. 11813-1, 2013 - Matt Davis).
FS Date: 4/21/2015

LM Start	1.84	Rating **	M	Issue No.	985 (cont)
LM End	1.84	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_47516_73856.jpg



8-inch steel pipe with vent/siphon breaker on LS shoulder. Pipe sleeved through 14-inch steel pipe. Electrical conduit visible next to pipe.

Photo 3 of 3 : UCIP_SP_2018_47516_75034.jpg



LS: (photo from FPIIB Inspector H. Phillips) Annular space not grouted.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	2.34	Rating **	M	Issue No.	986	
LM End	2.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.221277 °	38.221277 °	
				-121.603505 °	-121.603505 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44683 DS_ID:21021 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. Discarded pipe on WS slope should be removed. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, 2.5 feet below the crown. Pump and gate valve in a pump house on the waterside (WS) slope. 4-foot by 4-foot concrete distribution box, power pole, and meter at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.5)]. FS Date: 4/21/2015						

Photo 1 of 3 : UCIP_SP_2018_44683_73882.jpg



Pipe visible on LS slope.

LM Start	2.34	Rating **	M	Issue No.	986 (cont)
LM End	2.34	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_44683_73881.jpg



Pipe and pumphouse on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

No Photos

Overview of crown at crossing, looking downstream.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	2.82	Rating **	M	Issue No.	987 (cont)
LM End	2.82	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.215351 °	38.215351 °	
			-121.608013 °	-121.608013 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:32526
DS_ID:21022
EP_NO: 2742
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Additional notes: pump was running during inspection, 16-inch pipe debris section located on landward side, view of standpipe and support structure on waterward side does not match structure description--need to determine if crossing has been altered.
FIELD_STRUCT_DESC: 16-inch coated steel drainage discharge pipe through the levee, 3.6 feet below the crown. Cutoff walls around the pipe at the center of the levee. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pump house on the LS shoulder. Pipe discharges into a 48-inch pipe with a screw gate on the LS. Rock revetment placed on the waterside (WS) slope. Revegetation in progress on the WS. (Plans to install a 16-inch siphon through the levee authorized under Permit No. 2742, 1958 - Reclamation District No. 501 [RD0501]. Plans to replace a portion of an existing 16-inch discharge pipe through the levee authorized under Permit No. 15380, 1999 - RD0501). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 6/4/2013

LM Start	2.82	Rating **	M	Issue No.	987 (cont)
LM End	2.82	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_32526_58935.jpg



Pump house on landward slope. An abandoned pipe section on landward slope.

Photo 3 of 3 : UCIP_SP_2018_32526_58934.jpg



Standpipe on landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	2.85	Rating **	M	Issue No.	3
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.214838 °	38.214075 °
				-121.608129 °	-121.608750 °
DWR ID	DWR_RD0501_01_f_2016_3				
Comment Code					
Inspector Comment					
2009 - Rock is starting to unravel, probably from a tree pop-out, hard toe. 2015: No observed changes. [2015 Site ID: STM_18-9_R]					

Photo 1 of 1 : SP_2018_RD0501_169_3_20180305_00003.jpg



USACE 2013 Photo #1

LM Start	2.91	Rating **	M	Issue No.	37
LM End	2.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.214235 °	38.213547 °
				-121.608993 °	-121.609527 °
DWR ID	DWR_RD0501_01_s_2012_37				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	2.97	Rating **	M	Issue No.	988
LM End	2.97	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.213439 °	38.213439 °
				-121.609583 °	-121.609583 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44688 DS_ID:21025 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2-inch galvanized iron gravity irrigation pipe through the levee, 3.2 feet below the crown. 6-foot-diameter steel standpipe at the landside (LS) toe. Pipe may run parallel to the levee crown to cross the levee at the site of the 14-inch pipe at HLM 2.98. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/21/2015					

Photo 1 of 2 : UCIP_SP_2018_44688_73891.jpg



Pipe visible at LS shoulder. Pipe connects to top of steel standpipe at LS toe.

LM Start	2.97	Rating **	M	Issue No.	988 (cont)
LM End	2.97	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_44688_73890.jpg



Shutoff valve at LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.04	Rating **	M	Issue No.	2
LM End	3.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.212573 °	38.211596 °
				-121.609760 °	-121.609928 °
DWR ID	DWR_RD0501_01_f_2016_2				
Comment Code					
Inspector Comment					
2000 - Slow erosion of lower and mid-slope with rock bench at the low water line. 2015: No observed changes. [2015 Site ID: STM_18-8_R]					

Photo 1 of 1 : SP_2018_RD0501_169_2_20180305_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.12	Rating **	U	Issue No.	989	
LM End	3.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.211386 °		38.211386 °
				-121.610189 °		-121.610189 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50022 DS_ID:21026 EP_NO: 9880 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Same as last inspection (pipe appears to be leaking on WS). UPDATES--levee crown has been re-paved by Sacramento County--no cracks found on crown surface. Dense vegetation limits the inpsector's visibility to identify signs of pipe failure (leaks) through the slope. Need to contact owner to determine status of crossing. Due to the leak on the WS it is recommended that the pipe be tested for internal integrity through the levee. (DWR UCIP - omagana)6/04/2013 Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorize?). Need to contact owner to coordinate with CVFPB. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 8-inch coated steel irrigation discharge pipe and 1.5-inch steel electrical conduit through the levee, both 2 feet below the crown. Gate valve on the waterside (WS). Cutoff wall around the pipe and conduit at the center of the levee. Siphon breaker on the apex of the pipe at the landside (LS) shoulder. Pump on a piling structure on the WS slope. Meter pole on the LS toe. Pipe is exposed along the LS slope. Discharge filter on the LS slope. (Pipe and pump installed under Permit No. 9880, 1974 - Stewart Brothers. Permit conditions modified under Permit Nos. 9880-A and 9880-B, 1975 - Stewart Brothers). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/22/2016						

Photo 1 of 3 : UCIP_SP_2018_50022_58942.jpg



View of levee crown at crossing. Single line crack on levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.12	Rating **	U	Issue No.	989 (cont)
LM End	3.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.211386 °	38.211386 °
				-121.610189 °	-121.610189 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50022

DS_ID:21026

EP_NO: 9880

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/22/2016 Same as last inspection (pipe appears to be leaking on WS). UPDATES--levee crown has been re-paved by Sacramento County--no cracks found on crown surface. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Need to contact owner to determine status of crossing. Due to the leak on the WS it is recommended that the pipe be tested for internal integrity through the levee. (DWR UCIP - omagana)6/04/2013 Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorize?). Need to contact owner to coordinate with CVFPB. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 8-inch coated steel irrigation discharge pipe and 1.5-inch steel electrical conduit through the levee, both 2 feet below the crown. Gate valve on the waterside (WS). Cutoff wall around the pipe and conduit at the center of the levee. Siphon breaker on the apex of the pipe at the landside (LS) shoulder. Pump on a piling structure on the WS slope. Meter pole on the LS toe. Pipe is exposed along the LS slope. Discharge filter on the LS slope. (Pipe and pump installed under Permit No. 9880, 1974 - Stewart Brothers. Permit conditions modified under Permit Nos. 9880-A and 9880-B, 1975 - Stewart Brothers).

[Additional Reference(s): DWR Levee Log, 2005].

FS Date: 8/22/2016

Photo 2 of 3 : UCIP_SP_2018_50022_58940.jpg



Station details--gate valve, air vent, and other appurtenances.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.12	Rating **	U	Issue No.	989 (cont)
LM End	3.12	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.211386 °	38.211386 °	
			-121.610189 °	-121.610189 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:50022
DS_ID:21026
EP_NO: 9880
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Same as last inspection (pipe appears to be leaking on WS). UPDATES--levee crown has been re-paved by Sacramento County--no cracks found on crown surface. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Need to contact owner to determine status of crossing. Due to the leak on the WS it is recommended that the pipe be tested for internal integrity through the levee. (DWR UCIP - omagana)6/04/2013 Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorized?). Need to contact owner to coordinate with CVFPB. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 8-inch coated steel irrigation discharge pipe and 1.5-inch steel electrical conduit through the levee, both 2 feet below the crown. Gate valve on the waterside (WS). Cutoff wall around the pipe and conduit at the center of the levee. Siphon breaker on the apex of the pipe at the landside (LS) shoulder. Pump on a piling structure on the WS slope. Meter pole on the LS toe. Pipe is exposed along the LS slope. Discharge filter on the LS slope. (Pipe and pump installed under Permit No. 9880, 1974 - Stewart Brothers. Permit conditions modified under Permit Nos. 9880-A and 9880-B, 1975 - Stewart Brothers).
[Additional Reference(s): DWR Levee Log, 2005].
FS Date: 8/22/2016

Photo 3 of 3 : UCIP_SP_2018_50022_58945.jpg



View of waterward side--pressure gauge, conduit, and wraps to prevent leaks.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.19	Rating **	M	Issue No.	15
LM End	3.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210429 °	38.209974 °
				-121.610503 °	-121.610703 °
DWR ID	DWR_RD0501_01_s_2012_15				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Large cactus and other landscaping should be thined or removed to allow inspection and access to landside slope and toe.					

Photo 1 of 1 : SP_2018_RD0501_169_15_20180313_00064.jpg



Cactus should be removed to allow inspection and access to levee slope.

LM Start	3.24	Rating **	U	Issue No.	63
LM End	3.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.209811 °	38.209713 °
				-121.610813 °	-121.610882 °
DWR ID	DWR_RD0501_01_f_2012_63				
Comment Code					
MA : Material					
Inspector Comment					
There is a large stock pile of fire wood, metal scrap, and other unwanted materials placed withn the 10-foot easement landside that ned to be removed.					

Photo 1 of 2 : SP_2018_RD0501_169_63_20180305_00013.jpg



RD 501 Unit 1 levee mile 3.24 landside toe.

LM Start	3.24	Rating **	U	Issue No.	63 (cont)
LM End	3.24	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_RD0501_169_63_20180305_00014.jpg



RD 501 Levee mile 3.24 landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.46	Rating **	M	Issue No.	990
LM End	3.46	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.206726 °	38.206726 °
				-121.612135 °	-121.612135 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32529
DS_ID:21028
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe was running during inspection. Crack on crown surface could be associated with pipe vibration during operation. Need to determine owner of crossing. Owner will need to clear vegetation along pipe alignment on landward side to prevent levee inspection along crossing.
FIELD_STRUCT_DESC: 20-inch irrigation discharge pipe of an unknown material through the levee, 2.2 feet below the crown. 1.5-inch electrical conduit alongside the 20-inch pipe. Pump on a platform on the waterside (WS). Walkway present on the WS. Standpipe on the landside (LS) toe. Pipe exposed along both slopes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 3.7)].
FS Date: 6/4/2013

LM Start	3.46	Rating **	M	Issue No.	990 (cont)
LM End	3.46	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_32529_58954.jpg



Single line crack on crown.

Photo 2 of 3 : UCIP_SP_2018_32529_58951.jpg



View of waterward side--siphon breaker, walkway, platform, pump, and control panel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.73	Rating **	A/W	Issue No.	974 (cont)	
LM End	4.12	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.202997 °		38.197778 °
				-121.613450 °		-121.616080 °
DWR ID	DWR_RD0501_01_s_2012_974					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Vegetation has been cleared to 20 feet from crown.						

Photo 2 of 2 : SP_2018_RD0501_169_974_20180305_00016.jpg



RD 501 Levee mile 3.73-4.12 wild tree growth and vegetation blocking view of the levee slope.

LM Start	3.74	Rating **	M	Issue No.	30
LM End	3.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.202863 °	38.202863 °
				-121.613508 °	-121.613508 °
DWR ID	DWR_RD0501_01_f_2017_30				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping should be thinned to allow inspection and access to slope and toe. Downed deadwood should also be removed from slope.					

Photo 1 of 1 : SP_2018_RD0501_169_30_20180305_00007.jpg



Landscaping should be thinned to allow inspection and access to slope and toe. Downed deadwood should also be removed from slope.

LM Start	3.94	Rating **	A/W	Issue No.	33
LM End	4.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.200083 °	38.199057 °
				-121.614642 °	-121.615227 °
DWR ID	DWR_RD0501_01_f_2017_33				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Willows have been thinned to allow limited visibility. Should continue to reduce and/or remove this vegetation to increase visibility and access to slope and toe.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.27	Rating **	M	Issue No.	991
LM End	4.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.196176 °	38.196176 °
				-121.617898 °	-121.617898 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:19644
DS_ID:21016
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe section was altered/modified through levee crown. 12-inch pipe sleeved through existing pipe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Additional Notes: electrical conduit is disconnected on landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also need to contact owner to obtain maintenance records for crossing--need permit authorizing modifications.
FIELD_STRUCT_DESC: 14-inch irrigation discharge pipe of an unknown material through the levee, 3.2 feet below the crown. 12-inch pipe sleeved through the existing 14-inch pipe with annular space grouted. 1.5-inch electrical conduit runs parallel along the 14-inch pipe. Pump on a pile structure in the channel. Walkway to the pump.
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 4.6), 14-inch pipe listed].
FS Date: 6/4/2013

LM Start	4.27	Rating **	M	Issue No.	991 (cont)
LM End	4.27	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_19644_33328.jpg



View of waterward side.

Photo 2 of 3 : UCIP_SP_2018_19644_33331.jpg



Overview of waterward side--pump station, platform, & power pole.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.27	Rating **	M	Issue No.	991 (cont)	
LM End	4.27	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.196176 °		38.196176 °
				-121.617898 °		-121.617898 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19644 DS_ID:21016 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe section was altered/modified through levee crown. 12-inch pipe sleeved through existing pipe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Additional Notes: electrical conduit is disconnected on landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also need to contact owner to obtain maintenance records for crossing--need permit authorizing modifications. FIELD_STRUCT_DESC: 14-inch irrigation discharge pipe of an unknown material through the levee, 3.2 feet below the crown. 12-inch pipe sleeved through the existing 14-inch pipe with annular space grouted. 1.5-inch electrical conduit runs parallel along the 14-inch pipe. Pump on a pile structure in the channel. Walkway to the pump. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 4.6), 14-inch pipe listed]. FS Date: 6/4/2013						

Photo 3 of 3 : UCIP_SP_2018_19644_33326.jpg



12-inch pipe sleeved through existing 14-inch pipe, and annular space grouted--waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.34	Rating **	M	Issue No.	992
LM End	4.34	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195627 °	38.195627 °
				-121.619082 °	-121.619082 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50024
DS_ID:21017
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Unable to locate conduit due to dense vegetation. Electrical conduit crossing has been downgraded from Urgent to Non-Urgent no damage to levee was observed. Dense vegetation was observed on both WS and LS. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is abandoned owner will need to coordinate with CVFPB to remove crossing. (DWR UCIP - omagana)4/21/2016 Pipe abandoned and open on WS slope. Should be removed or abandoned properly. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 2.5-inch steel electrical conduit through the levee, 4 feet below the crown. No Location marker was found on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 8/22/2016

LM Start	4.34	Rating **	M	Issue No.	992 (cont)
LM End	4.34	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_50024_73901.jpg



2.5-inch conduit visible on WS slope.

Photo 2 of 3 : UCIP_SP_2018_50024_73900.jpg



2.5-inch conduit visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

Dense vegetation on WS--unable to locate line.

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

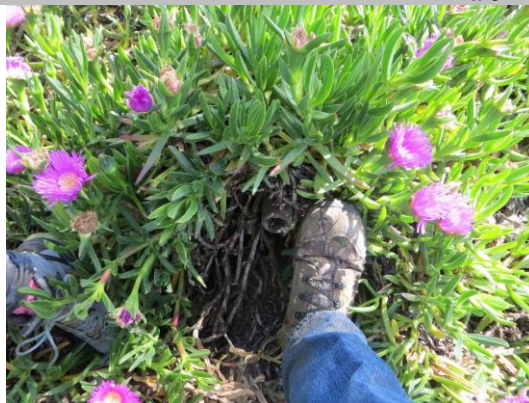
Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.57	Rating **	M	Issue No.	993	
LM End	4.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.194438 °		38.194438 °
				-121.623063 °		-121.623063 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44720 DS_ID:21103 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify type of abandonment and if needed abandon it properly. FIELD_STRUCT_DESC: *ABANDONED* 12-inch pipe of an unknown material or purpose through the levee, 3 feet below the crown. 1.5-inch electrical conduit is visible on the landside (LS) slope, 3 feet below the crown, good indicator for the pipe crossing. [Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 4.9)]. FS Date: 4/21/2015						

LM Start	4.57	Rating **	M	Issue No.	993 (cont)
LM End	4.57	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44720_73904.jpg



Pipe visible on LS slope. Succulants mound up over pipe.

Photo 2 of 3 : UCIP_SP_2018_44720_73903.jpg



Mound at pipe visible on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.57	Rating **	M	Issue No.	993 (cont)	
LM End	4.57	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.194438 °		38.194438 °
				-121.623063 °		-121.623063 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44720 DS_ID:21103 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify type of abandonment and if needed abandon it properly. FIELD_STRUCT_DESC: *ABANDONED* 12-inch pipe of an unknown material or purpose through the levee, 3 feet below the crown. 1.5-inch electrical conduit is visible on the landside (LS) slope, 3 feet below the crown, good indicator for the pipe crossing. [Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 4.9)]. FS Date: 4/21/2015						

Photo 3 of 3 : UCIP_SP_2018_44720_73902.jpg



Depression on WS shoulder across from pipe may be a good indicator of pipe location.

LM Start	4.64	Rating **	M	Issue No.	35
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194463 °	38.194463 °
				-121.624310 °	-121.624310 °
DWR ID	DWR_RD0501_01_f_2017_35				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Very large mounds of blackberry vines prohibit inspection and access. Should be removed.					

Photo 1 of 1 : SP_2018_RD0501_169_35_20180305_00009.jpg



Very large mounds of blackberry vines prohibit inspection and access. Should be removed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.95	Rating **	M	Issue No.	977
LM End	4.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.195057 °	38.195068 °
				-121.629965 °	-121.630173 °
DWR ID	DWR_RD0501_01_s_2012_977				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove the equipment from the 10 foot easement.					

No Photos

LM Start	5.04	Rating **	M	Issue No.	994
LM End	5.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195009 °	38.195009 °
				-121.631548 °	-121.631548 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44726 DS_ID:21018 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears abandoned as there are no connections at siphon pump on LS shoulder. If it is abandoned it should be done so properly. FIELD_STRUCT_DESC: 14-inch steel irrigation siphon pipe sleeved through a 16-inch steel pipe through the levee, 3 feet below the crown. Annular space grouted. Siphon pump/breaker on the landside (LS) shoulder. Steel standpipe with a slide gate at the LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 5.4), 16-inch pipe listed]. FS Date: 4/23/2015					

Photo 1 of 3 : UCIP_SP_2018_44726_73922.jpg



Siphon pump on LS shoulder. No connection at this time.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.06	Rating **	A/W	Issue No.	144
LM End	5.15	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195012 °	38.194563 °
				-121.631897 °	-121.633400 °
DWR ID	DWR_RD0501_01_f_2013_144				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					
Veg Site USACE RD 501 SB RM.16.6R DEPARTMENT OF WATER RESOURCES					

No Photos

LM Start	5.20	Rating **	A/W	Issue No.	36
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194288 °	38.194288 °
				-121.634262 °	-121.634262 °
DWR ID	DWR_RD0501_01_f_2017_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Willows and blackberries are blocking inspection and access to toe. Should be thinned or removed.					

No Photos

LM Start	5.27	Rating **	A/W	Issue No.	65
LM End	5.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.193805 °	38.192457 °
				-121.635391 °	-121.637997 °
DWR ID	DWR_RD0501_01_f_2012_65				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild vegetation has been mowed to 20 feet from crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.39	Rating **	A/W	Issue No.	978
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.192878 °	38.192588 °
				-121.637332 °	-121.637802 °
DWR ID	DWR_RD0501_01_f_2013_978				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Some trimming of these willow trees is apparent, but should continue until inspection and access are restored.					

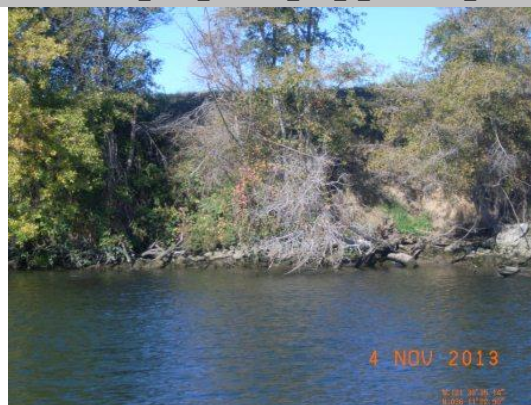
No Photos

LM Start	5.71	Rating **	A/W	Issue No.	24
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.190590 °	38.190246 °
				-121.642468 °	-121.643164 °
DWR ID	DWR_RD0501_01_s_2012_24				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild growth is cleared to 20 feet from crown.					

No Photos

LM Start	5.77	Rating **	M	Issue No.	1
LM End	5.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.190001 °	38.189311 °
				-121.643160 °	-121.643917 °
DWR ID	DWR_RD0501_01_f_2017_1				
Comment Code					
Inspector Comment					
2008 - Overstepped levee section with multiple small pockets of erosion 10 - 20 ft wide. 2013 - Site has fresh erosion and taller vertical sections. 2015: No observed changes. [2015 Site ID: STM_15-7_R]					

Photo 1 of 1 : SP_2018_RD0501_169_1_20180305_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.89	Rating **	U	Issue No.	38
LM End	5.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.188870 °	38.188870 °
				-121.644732 °	-121.644732 °
DWR ID	DWR_RD0501_01_f_2017_38				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim/thin/remove trees and undergrowth to allow inspection and access to slope and toe. (LMA reports USDFW objects to trimming/thinning/mowing.)					

Photo 1 of 1 : SP_2018_RD0501_169_38_20180305_00010.jpg



Trim/thin/remove trees and undergrowth to allow inspection and access to slope and toe.

LM Start	5.94	Rating **	M	Issue No.	39
LM End	6.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188283 °	38.186090 °
				-121.645398 °	-121.648027 °
DWR ID	DWR_RD0501_01_f_2017_39				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Heavy blackberry growth along toe should be removed to allow inspection and access to toe. LMA reports ditch near toe inhibits ability to mow.					

Photo 1 of 1 : SP_2018_RD0501_169_39_20180305_00011.jpg



Heavy blackberry growth along toe, possibly over fence, should be removed to allow inspection and access to toe.

LM Start	6.15	Rating **	M	Issue No.	40
LM End	6.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.186090 °	38.186090 °
				-121.648022 °	-121.648022 °
DWR ID	DWR_RD0501_01_f_2017_40				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.49	Rating **	M	Issue No.	22
LM End	6.68	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184539 °	38.183923 °
				-121.653865 °	-121.657321 °
DWR ID	DWR_RD0501_01_s_2012_22				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.59	Rating **	M	Issue No.	23	
LM End	6.62	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.184136 °		38.184040 °
				-121.655762 °		-121.656291 °
DWR ID	DWR_RD0501_01_s_2012_23					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
Trees still need to be trimmed.						

No Photos

LM Start	6.65	Rating **	M	Issue No.	41
LM End	6.70	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184020 °	38.184013 °
				-121.656815 °	-121.657643 °
DWR ID	DWR_RD0501_01_f_2017_41				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trees/oleanders should be trimmed or removed to allow inspection and access to waterside slope.					

Photo 1 of 1 : SP_2018_RD0501_169_41_20180305_00012.jpg



Trees/oleanders should be trimmed or removed to allow inspection and access to waterside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.66	Rating **	M	Issue No.	995	
LM End	6.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.183961 °	38.183961 °	
				-121.656860 °	-121.656860 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32530 DS_ID:21020 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If structure is no longer used--Need to contact owner to determine status. If crossing is no longer used owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: *ABANDONED* 16-inch irrigation discharge pipe of an unknown material through the levee, 6.5 feet below the crown. Siphon breaker and service pole on the landside (LS) shoulder. Electrical box at the LS toe. Pump on a pile structure in the channel. 3-inch steel sewer pipe sleeved through 16-inch pipe. Annular space grouted. ([Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/4/2013						

LM Start	6.66	Rating **	M	Issue No.	995 (cont)
LM End	6.66	Issue Type +	En	Location *	

Abandoned 16-inch pipe on landward side.

Overview of waterward side--section of pipe visible through dense vegetation.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.66	Rating **	M	Issue No.	995 (cont)	
LM End	6.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.183961 °	38.183961 °	
				-121.656860 °	-121.656860 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32530 DS_ID:21020 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If structure is no longer used--Need to contact owner to determine status. If crossing is no longer used owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: *ABANDONED* 16-inch irrigation discharge pipe of an unknown material through the levee, 6.5 feet below the crown. Siphon breaker and service pole on the landside (LS) shoulder. Electrical box at the LS toe. Pump on a pile structure in the channel. 3-inch steel sewer pipe sleeved through 16-inch pipe. Annular space grouted. ([Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/4/2013						

Photo 3 of 3 : UCIP_SP_2018_32530_58955.jpg



Electrical box visible on landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	3.56
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/13/2018 - 3/13/2018			
DWR Inspector	Keith Millard			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	0.00	Rating **	M	Issue No.	2
LM End	0.09	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.184050 °	38.185178 °
				-121.657713 °	-121.658515 °
DWR ID	DWR_RD0501_02_s_2012_2				
Comment Code					
FE : Fence					
Inspector Comment					
This is the chainlink fence behind the guardrail.					

Photo 1 of 1 : SP_2018_RD0501_170_2_20180313_00048.jpg



Chainlink fence behind guardrail is not permitted.

LM Start	0.00	Rating **	M	Issue No.	19
LM End	0.04	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184033 °	38.184412 °
				-121.657730 °	-121.658257 °
DWR ID	DWR_RD0501_02_f_2017_19				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trees/oleanders should be removed or trimmed to allow inspection and access.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	0.56	Rating **	M	Issue No.	22 (cont)	
LM End	0.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.191452 °	38.191452 °	
				-121.656188 °	-121.656188 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32531						
DS_ID:21035						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to determine owner and status of crossing.						
FIELD_STRUCT_DESC: 10-inch irrigation discharge pipe of an unknown material sleeved through a 12-inch pipe of an unknown material through the levee, 5 feet below the crown. Pump on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.6)].						
FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_32531_58959.jpg



Overview of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	0.86	Rating **	U	Issue No.	23
LM End	0.86	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195588 °	38.195588 °
				-121.655189 °	-121.655189 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50018 DS_ID:21092 EP_NO: 3703 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Same as last inspection -- pipe is deteriorating and breaking apart (visible on WS). (DWR UCIP - omagana)6/07/2013 Deteriorated pipe with holes present at intake. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer used --owner will need coordinate with CVFPB to address crossing. Need to coordinate with DWR Inspector and CVFPB. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation siphon pipe through the levee, 1.7 feet below the crown. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pipe discharges into a concrete sump near the LS toe. Pipe is exposed along the LS slope. Second 8-inch pipe approximately 1 foot apart is visible on the LS. Pipe is also visible on the waterside (WS). (Retention of an existing 8-inch siphon pipe through the levee authorized under Permit No. 3703, 1961 - Enzo Guidi). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/22/2016					

LM Start	0.86	Rating **	U	Issue No.	23 (cont)
LM End	0.86	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_50018_58967.jpg



Overview of WS--20 foot berm present.

Photo 2 of 3 : UCIP_SP_2018_50018_58965.jpg



View of WS. Inspector is standing near exposed section of pipe at levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	0.86	Rating **	U	Issue No.	23 (cont)
LM End	0.86	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195588 °	38.195588 °
				-121.655189 °	-121.655189 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50018
DS_ID:21092
EP_NO: 3703
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Same as last inspection -- pipe is deteriorating and breaking apart (visible on WS). (DWR UCIP - omagana)6/07/2013 Deteriorated pipe with holes present at intake. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer used --owner will need coordinate with CVFPB to address crossing. Need to coordinate with DWR Inspector and CVFPB. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation siphon pipe through the levee, 1.7 feet below the crown. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pipe discharges into a concrete sump near the LS toe. Pipe is exposed along the LS slope. Second 8-inch pipe approximately 1 foot apart is visible on the LS. Pipe is also visible on the waterside (WS). (Retention of an existing 8-inch siphon pipe through the levee authorized under Permit No. 3703, 1961 - Enzo Guidi). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 8/22/2016

Photo 3 of 3 : UCIP_SP_2018_50018_58966.jpg



Deteriorated pipe with visible holes through pipe wall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	0.86	Rating **	U	Issue No.	24
LM End	0.86	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.195600 °	38.195600 °	
			-121.655191 °	-121.655191 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:50019
DS_ID:21036
EP_NO: 1902
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Same as previous inspection. Pipe is deteriorating and open on WS. (DWR UCIP - omagana)6/07/2013 Reason for an Urgent Priority is due to adjacent crossing--adjacent crossing has holes present and is was installed in the 1960s. Our records show this pipe was installed before 1955. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer in use--Owner will need to coordinate with DWR Inspector and CVFPB. Need to determine condition of pipe--request maintenance records from owner once found--this crossing could be capped and grouted--NEED RECORDS. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation siphon pipe encased in a 10-inch, 14 gage corrugated metal pipe (CMP) through the levee, 1.7 feet below the crown. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pipe discharges into a concrete sump near the LS toe. Pipe exposed along the LS slope. (Plans for replacing an existing pipe through the levee authorized under Permit No. 1902, 1954 - Enzo Guidi). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.9)].
FS Date: 8/22/2016

LM Start	0.86	Rating **	U	Issue No.	24 (cont)
LM End	0.86	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_50019_58968.jpg



8-inch pipes approximately 1 foot apart.

Photo 2 of 3 : UCIP_SP_2018_50019_58970.jpg



Overview of waterward side--20 foot berm present.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	0.86	Rating **	U	Issue No.	24 (cont)	
LM End	0.86	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.195600 °	38.195600 °	
				-121.655191 °	-121.655191 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50019 DS_ID:21036 EP_NO: 1902 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Same as previous inspection. Pipe is deteriorating and open on WS. (DWR UCIP - omagana)6/07/2013 Reason for an Urgent Priority is due to adjacent crossing--adjacent crossing has holes present and is was installed in the 1960s. Our records show this pipe was installed before 1955. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer in use--Owner will need to coordinate with DWR Inspector and CVFPB. Need to determine condition of pipe--request maintenance records from owner once found--this crossing could be capped and grouted--NEED RECORDS. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation siphon pipe encased in a 10-inch, 14 gage corrugated metal pipe (CMP) through the levee, 1.7 feet below the crown. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pipe discharges into a concrete sump near the LS toe. Pipe exposed along the LS slope. (Plans for replacing an existing pipe through the levee authorized under Permit No. 1902, 1954 - Enzo Guidi). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.9)]. FS Date: 8/22/2016						

Photo 3 of 3 : UCIP_SP_2018_50019_58969.jpg



View of waterward side--dense vegetation limits inspection. Unable to locate pipe on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

No Photos

USACE 2013 Photo #1Page 8 of 28

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

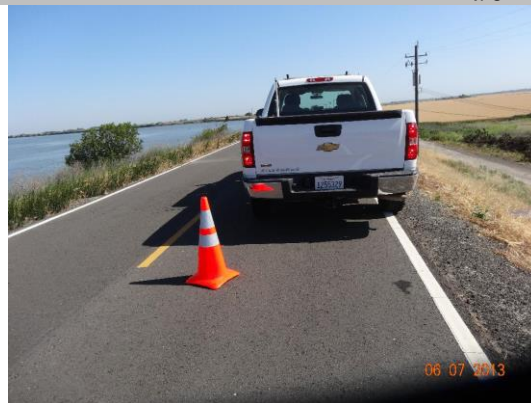
Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.15	Rating **	M	Issue No.	25
LM End	1.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199816 °	38.199816 °
				-121.655395 °	-121.655395 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44865 DS_ID:21038 EP_NO: 2817 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole located on waterward side. FIELD_STRUCT_DESC: 20-inch steel drainage discharge pipe sleeved through a 24-inch steel pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Cutoff wall around the pipe at each shoulder. Pipe exposed along both slopes. Rock revetment on the WS slope. Berm on the WS is over 20 feet. (Plans to install a drainage pipe through the levee authorized under Permit No. 2817, 1958 - Reclamation District No. 501 [RD0501])). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013					

LM Start	1.15	Rating **	M	Issue No.	25 (cont)
LM End	1.15	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44865_58975.jpg



View of levee crown at crossings.

Photo 2 of 3 : UCIP_SP_2018_44865_58972.jpg



View of waterward side--pipe section exposed and siphon breaker. Over 20 feet berm on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.15	Rating **	M	Issue No.	25 (cont)	
LM End	1.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.199816 °	38.199816 °	
				-121.655395 °	-121.655395 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44865 DS_ID:21038 EP_NO: 2817 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole located on waterward side. FIELD_STRUCT_DESC: 20-inch steel drainage discharge pipe sleeved through a 24-inch steel pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Cutoff wall around the pipe at each shoulder. Pipe exposed along both slopes. Rock revetment on the WS slope. Berm on the WS is over 20 feet. (Plans to install a drainage pipe through the levee authorized under Permit No. 2817, 1958 - Reclamation District No. 501 [RD0501]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_44865_58974.jpg



Waterward side--2-24 inch pipe inlets.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.16	Rating **	M	Issue No.	26
LM End	1.16	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199837 °	38.199837 °
				-121.655391 °	-121.655391 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44866 DS_ID:21094 EP_NO: 14491 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole present on waterward side. FIELD_STRUCT_DESC: 24-inch coated steel drainage discharge pipe through the levee, 4.5 feet below the crown. Cutoff wall around the pipe at the center of the levee. Siphon breaker on the apex of the pipe at the waterside (WS) shoulder. Pump on the landside (LS). (Plans to install a 24-inch water discharge pipe through the levee authorized under Permit No. 14491, 1986 - Reclamation District No. 501 [RD0501]). FS Date: 6/7/2013					

Photo 1 of 3 : UCIP_SP_2018_44866_58981.jpg



View of downstream crown.

LM Start	1.16	Rating **	M	Issue No.	26 (cont)
LM End	1.16	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_44866_58979.jpg



Two pipes on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.16	Rating **	M	Issue No.	26 (cont)	
LM End	1.16	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.199837 °	38.199837 °	
				-121.655391 °	-121.655391 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44866 DS_ID:21094 EP_NO: 14491 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole present on waterward side. FIELD_STRUCT_DESC: 24-inch coated steel drainage discharge pipe through the levee, 4.5 feet below the crown. Cutoff wall around the pipe at the center of the levee. Siphon breaker on the apex of the pipe at the waterside (WS) shoulder. Pump on the landside (LS). (Plans to install a 24-inch water discharge pipe through the levee authorized under Permit No. 14491, 1986 - Reclamation District No. 501 [RD0501]). FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_44866_58976.jpg



Siphon breaker located at the waterward shoulder.

LM Start	1.25	Rating **	M	Issue No.	27
LM End	1.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.201143 °	38.201143 °
				-121.655169 °	-121.655169 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44753 DS_ID:21085 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 20-inch coated steel gravity drainage pipe through the levee, 15.5 feet below the crown. Pipe exposed along the waterside (WS) slope. Steel plate welded over end. [Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 1.4)]. FS Date: 4/23/2015					

Photo 1 of 3 : UCIP_SP_2018_44753_73955.jpg



20-inch pipe with welded steel plate over end on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.25	Rating **	M	Issue No.	27 (cont)	
LM End	1.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.201143 °		38.201143 °
				-121.655169 °		-121.655169 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44753 DS_ID:21085 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 20-inch coated steel gravity drainage pipe through the levee, 15.5 feet below the crown. Pipe exposed along the waterside (WS) slope. Steel plate welded over end. [Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 1.4)]. FS Date: 4/23/2015						

Photo 2 of 3 : UCIP_SP_2018_44753_73954.jpg



Hole in pipe at WS toe.

LM Start	1.25	Rating **	M	Issue No.	27 (cont)
LM End	1.25	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_44753_73953.jpg



Inside hole in pipe at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.70	Rating **	M	Issue No.	28
LM End	1.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.207507 °	38.207507 °
				-121.656219 °	-121.656219 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:44867
DS_ID:21093
EP_NO: 13520
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Owner needs to be informed about the vegetation clearance required for proper inspection.
FIELD_STRUCT_DESC: 18-inch coated steel irrigation siphon pipe through the levee, 3.4 feet below the crown. Steel cutoff wall around the pipe at the center of the levee. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pipe extends from a sump off the LS toe. Pipe exposed along the waterside (WS) slope. Rock revetment on the WS slope. (Plans to remove two siphons and install one 18-inch steel siphon through the levee authorized under Permit No. 13520, 1982 - Lewis Nixon Company).
FS Date: 6/7/2013

LM Start	1.70	Rating **	M	Issue No.	28 (cont)
LM End	1.70	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44867_58987.jpg



Overview of waterside. Dense vegetation.

Photo 2 of 3 : UCIP_SP_2018_44867_58982.jpg



View of waterward side--pipe extends from berm to river.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.70	Rating **	M	Issue No.	28 (cont)	
LM End	1.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.207507 °	38.207507 °	
				-121.656219 °	-121.656219 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44867 DS_ID:21093 EP_NO: 13520 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Owner needs to be informed about the vegetation clearance required for proper inspection. FIELD_STRUCT_DESC: 18-inch coated steel irrigation siphon pipe through the levee, 3.4 feet below the crown. Steel cutoff wall around the pipe at the center of the levee. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Pipe extends from a sump off the LS toe. Pipe exposed along the waterside (WS) slope. Rock revetment on the WS slope. (Plans to remove two siphons and install one 18-inch steel siphon through the levee authorized under Permit No. 13520, 1982 - Lewis Nixon Company). FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_44867_58985.jpg



Photo of pipe looking from berm edge to river edge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.80	Rating **	M	Issue No.	29
LM End	1.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.208874 °	38.208874 °
				-121.655505 °	-121.655505 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40489
DS_ID:21042
EP_NO: 15477
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Stacey Boyd, LMA superintendent for RD0501, confirmed the removal and replacement of existing crossing under new permit no. 18811. New crossing will be a 30-inch diameter discharge pipe above the design flood plane. Construction will start soon. Update record once the project is completed. Dense vegetation on both waterside and landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 42-inch steel drainage discharge pipe through the levee, 6.5 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on the landside (LS). Pipe exposed along both slopes. (Plans to replace two pipes with two 36-inch discharge pipes through the levee authorized under Permit No. 15477, 1990 - Reclamation District No. 501 [RD0501]). Permit does not match this crossing. Recommend deletion of permit. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.0)].
FS Date: 6/7/2013

LM Start	1.80	Rating **	M	Issue No.	29 (cont)
LM End	1.80	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_40489_33358.jpg



Overview of crown, looking downstream.

Photo 2 of 3 : UCIP_SP_2018_40489_33359.jpg



One 42-inch steel pile with siphon break on waterside slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.80	Rating **	M	Issue No.	29 (cont)	
LM End	1.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.208874 °	38.208874 °	
				-121.655505 °	-121.655505 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40489 DS_ID:21042 EP_NO: 15477 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Stacey Boyd, LMA superintendent for RD0501, confirmed the removal and replacement of existing crossing under new permit no. 18811. New crossing will be a 30-inch diameter discharge pipe above the design flood plane. Construction will start soon. Update record once the project is completed. Dense vegetation on both waterside and landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 42-inch steel drainage discharge pipe through the levee, 6.5 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on the landside (LS). Pipe exposed along both slopes. (Plans to replace two pipes with two 36-inch discharge pipes through the levee authorized under Permit No. 15477, 1990 - Reclamation District No. 501 [RD0501]). Permit does not match this crossing. Recommend deletion of permit. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.0)]. FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_40489_33357.jpg



Siphon breaker on apex of steel pipe waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.81	Rating **	M	Issue No.	30 (cont)	
LM End	1.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.208998 °	38.208998 °	
				-121.655575 °	-121.655575 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47049 DS_ID:21091 EP_NO: 15477 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 1 of 2: 36-inch coated steel drainage discharge pipe through the levee, 7 feet below the crown. Siphon breaker on the waterside (WS) shoulder. Pump on the landside (LS). Pipe exposed along both slopes. Pipe supports at levee shoulders were cutoff walls from a preexisting pipe. Pipes are approximately 36 inches apart. (Plans to replace two pipes with two 36-inch discharge pipes through the levee authorized under Permit No. 15477, 1990 - Reclamation District No. 501 [RD0501])). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_47049_33374.jpg



View of exposed pipe section on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.82	Rating **	M	Issue No.	31
LM End	1.82	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.209009 °	38.209009 °
				-121.655585 °	-121.655585 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47050
DS_ID:21084
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 2 of 2: 36-inch coated steel drainage discharge pipe through the levee, 7 feet below the crown. Siphon breaker on the waterside (WS) shoulder. Pump on the landside (LS). Pipe exposed along both slopes. Pipe supports at levee shoulders were cutoff walls from a preexisting pipe. Pipes are approximately 36 inches apart. (Plans to replace two pipes with two 36-inch discharge pipes through the levee authorized under Permit No. 15477, 1990 - Reclamation District No. 501 [RD0501]). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 6/7/2013

LM Start	1.82	Rating **	M	Issue No.	31 (cont)
LM End	1.82	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_47050_33371.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP_SP_2018_47050_33372.jpg



Overview of waterward side--3 crossings visible 1-42 inch pipe and 2-36 inch pipes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	1.82	Rating **	M	Issue No.	31 (cont)	
LM End	1.82	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.209009 °	38.209009 °	
				-121.655585 °	-121.655585 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47050 DS_ID:21084 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 2 of 2: 36-inch coated steel drainage discharge pipe through the levee, 7 feet below the crown. Siphon breaker on the waterside (WS) shoulder. Pump on the landside (LS). Pipe exposed along both slopes. Pipe supports at levee shoulders were cutoff walls from a preexisting pipe. Pipes are approximately 36 inches apart. (Plans to replace two pipes with two 36-inch discharge pipes through the levee authorized under Permit No. 15477, 1990 - Reclamation District No. 501 [RD0501])). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_47050_33368.jpg



View of 36 inch pipes exposed on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	2.44	Rating **	M	Issue No.	32
LM End	2.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.213390 °	38.213390 °
				-121.665104 °	-121.665104 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32537 DS_ID:21044 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch coated steel irrigation siphon pipe through the levee, 6.2 feet below the crown. Siphon breaker on the waterside (WS) shoulder. (Plans to replace a section of an existing 14-inch pipe in the levee authorized under Permit No. 13937, 19 - Lewis Nixon Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.6)]. FS Date: 6/7/2013					

Photo 1 of 3 : UCIP_SP_2018_32537_58989.jpg



View of levee crown--narrow road.

LM Start	2.44	Rating **	M	Issue No.	32 (cont)
LM End	2.44	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_32537_58990.jpg



Photo taken just downstream of crossing looking at waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	2.44	Rating **	M	Issue No.	32 (cont)
LM End	2.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.213390 °	38.213390 °
				-121.665104 °	-121.665104 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32537 DS_ID:21044 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch coated steel irrigation siphon pipe through the levee, 6.2 feet below the crown. Siphon breaker on the waterside (WS) shoulder. (Plans to replace a section of an existing 14-inch pipe in the levee authorized under Permit No. 13937, 19 - Lewis Nixon Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.6)]. FS Date: 6/7/2013					

Photo 3 of 3 : UCIP_SP_2018_32537_58988.jpg



View of exposed section of pipe at waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	2.80	Rating **	M	Issue No.	33 (cont)
LM End	2.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.217579 °	38.217579 °
				-121.668963 °	-121.668963 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44872 DS_ID:21045 EP_NO: 4733 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 18-inch steel irrigation siphon pipe through the levee, 4 feet below the crown. Cutoff wall around the pipe at the center of the levee. Siphon breaker on the apex of the pipe on the landside (LS) shoulder. Rock revetment on the waterside (WS) slope. 16-inch pipe welded to the 18-inch pipe near the LS shoulder and extends down the LS slope. Pipe exposed along both slopes. (Plans for installing a siphon pipe through the levee authorized under Permit No. 4733, 1964 - Kenneth R. Stewart). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013					

Photo 3 of 3 : UCIP_SP_2018_44872_33391.jpg



Overview of landward side. Pump system located near crown hinge point.

LM Start	2.90	Rating **	A/W	Issue No.	4
LM End	2.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.218890 °	38.218997 °
				-121.669934 °	-121.669988 °
DWR ID	DWR_RD0501_02_s_2012_4				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No indications of rodent activity visible. Adjacent orchard may attract rodents, so area should be monitored.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	3.07	Rating **	M	Issue No.	21
LM End	3.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.221103 °	38.224732 °
				-121.671348 °	-121.672668 °
DWR ID	DWR_RD0501_02_f_2017_21				
Comment Code					
AT : Agricultural tilling					
Inspector Comment					
Aggricultural activity has cut into the landside levee toe resulting in a 4-foot tall, near vertical cut at the toe. This may destabilize the slope above. The toe should be reconstructed to the same slope angle as the levee slope above it.					

Photo 1 of 1 : SP_2018_RD0501_170_21_20180305_00002.jpg



Aggricultural activity has cut into the landside levee toe resulting in a 4-foot tall, near vertical cut at the toe. This may destabilize the slope above. The toe should be reconstructed to the same slope angle as the levee slope above it.

LM Start	3.07	Rating **	M	Issue No.	34
LM End	3.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221090 °	38.221090 °
				-121.671384 °	-121.671384 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19657 DS_ID:21046 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch welded steel irrigation siphon pipe sleeved through a 20-inch coated steel pipe through the levee, 4.7 feet below the crown. Annular space grouted. Siphon breaker on the landside (LS) shoulder. Pipe exposed along both slopes. (Plans to place a new 16-inch welded steel pipe within the old 20-inch siphon authorized under Permit No. 2645, 1957 - Henry and Joseph Passaglia). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 3.3)]. FS Date: 8/22/2013					

Photo 1 of 3 : UCIP_SP_2018_19657_33396.jpg



Dense vegetation along the crown hinge point and beginning section of waterward slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

Reclamation District No. 0501 Ryer Island

Overview of pipe along waterward side.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	03/13/2018 03/13/2018	Keith Millard

LM Start	3.41	Rating **	M	Issue No.	16
LM End	3.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.225823 °	38.225987 °
				-121.672837 °	-121.672870 °
DWR ID	DWR_RD0501_02_s_2012_16				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim up the tree on the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 03 Miner Slough			Left	7.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/13/2018 - 3/13/2018			
DWR Inspector	Keith Millard			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	0.62	Rating **	M	Issue No.	44 (cont)	
LM End	0.62	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.234679 °	38.234679 °	
				-121.665417 °	-121.665417 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44873 DS_ID:21065 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump operating during inspection. Need to determine owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 6.3 feet below the crown. Siphon breaker on the landside (LS) slope. Pipe exposed on both slopes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.7), 16-inch pipe referenced]. FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_44873_33404.jpg



Overview of landward side--pump sytem, pipe, and standpipe.

LM Start	1.35	Rating **	M	Issue No.	45
LM End	1.35	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.242879 °	38.242879 °
				-121.659450 °	-121.659450 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44728 DS_ID:21066 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Wooden walkway to pier in disrepair and a hazard. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 8 feet below the crown. Siphon breaker on the landside (LS) slope. Pump on a pipe structure in the stream. Concrete standpipe and distribution slide gates at the LS toe. 1.5-inch electrical conduit at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 1.5)]. FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_SP_2018_44728_73924.jpg



Siphon breaker in 24-inch CMP riser on LS slope. Standpipe visible at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	1.35	Rating **	M	Issue No.	45 (cont)	
LM End	1.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.242879 °		38.242879 °
				-121.659450 °		-121.659450 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44728 DS_ID:21066 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Wooden walkway to pier in disrepair and a hazard. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 8 feet below the crown. Siphon breaker on the landside (LS) slope. Pump on a pipe structure in the stream. Concrete standpipe and distribution slide gates at the LS toe. 1.5-inch electrical conduit at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 1.5)]. FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_SP_2018_44728_73923.jpg



Pump on wooden pier off WS toe.

LM Start	1.48	Rating **	M	Issue No.	28
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.244293 °	38.244293 °
				-121.657843 °	-121.657843 °
DWR ID	DWR_RD0501_03_f_2017_28				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim/thin willows to allow inspection and access to landside slope and toe.					

Photo 1 of 1 : SP_2018_RD0501_171_28_20180305_00001.jpg



Trim/thin willows to allow inspection and access to landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	1.56	Rating **	M	Issue No.	29
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.245445 °	38.245445 °
				-121.658035 °	-121.658035 °
DWR ID	DWR_RD0501_03_f_2017_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove berry vines at landside toe to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0501_171_29_20180305_00002.jpg



Remove berry vines at landside toe to allow inspection and access.

LM Start	1.88	Rating **	M	Issue No.	46	
LM End	1.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.249362 °	38.249362 °	
				-121.656357 °	-121.656357 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43503 DS_ID:21068 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Authorized or Unauthorized? Need permit authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope on both waterward and landward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, 6.3 feet below the crown. Pump, gate valve, and switch box on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.0), reported as 3.8 feet below the crown]. FS Date: 6/7/2013						

Photo 1 of 2 : UCIP_SP_2018_43503_33410.jpg



Overview of waterward side. Pipe is completely obstructed by dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	1.88	Rating **	M	Issue No.	46 (cont)	
LM End	1.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.249362 °		38.249362 °
				-121.656357 °		-121.656357 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43503 DS_ID:21068 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Authorized or Unauthorized? Need permit authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope on both waterward and landward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, 6.3 feet below the crown. Pump, gate valve, and switch box on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.0), reported as 3.8 feet below the crown]. FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_SP_2018_43503_33411.jpg



Overview of landward side. Pipe is visible however dense vegetation limits proper inspection.

LM Start	1.89	Rating **	M	Issue No.	30
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.249428 °	38.249428 °
				-121.656310 °	-121.656310 °
DWR ID	DWR_RD0501_03_f_2017_30				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove/manage landside vegetation and berry vines to allow inspection and access to slope and toe.					

Photo 1 of 1 : SP_2018_RD0501_171_30_20180305_00003.jpg



Remove/manage landside vegetation and berry vines to allow inspection and access to slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	2.20	Rating **	M	Issue No.	31
LM End	2.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.253885 °	38.253885 °
				-121.655353 °	-121.655353 °
DWR ID	DWR_RD0501_03_f_2017_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove large cactus at landside toe to allow inspection and access.					

Photo 1 of 2 : SP_2018_RD0501_171_31_20180305_00004.jpg



Remove large cactus at landside toe to allow inspection and access.

LM Start	2.20	Rating **	M	Issue No.	31 (cont)
LM End	2.20	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_RD0501_171_31_20180313_00077.jpg



Cactus at toe should be removed.

LM Start	2.44	Rating **	M	Issue No.	32
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.255070 °	38.255070 °
				-121.651630 °	-121.651630 °
DWR ID	DWR_RD0501_03_f_2017_32				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick berry vines at landside toe to allow inspection and access.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	2.52	Rating **	M	Issue No.	47 (cont)
LM End	2.52	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256255 °	38.256255 °
				-121.651551 °	-121.651551 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18945 DS_ID:21047 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine owner of structure. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch steel irrigation siphon pipe through the levee, 3.3 feet below the crown. Gate valve and switch box on the landside (LS) slope. Pipe exposed on both slopes. Riprap on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.7)]. FS Date: 6/7/2013					

Photo 3 of 3 : UCIP_SP_2018_18945_31608.jpg



Exposed section of pipe located on waterward side.

LM Start	3.51	Rating **	M	Issue No.	48	
LM End	3.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.266187 °	38.266187 °	
				-121.641909 °	-121.641909 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32538 DS_ID:21048 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find owner of crossing and determine if permit number is available. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump on a pile structure in the stream. Service pole on the landside (LS) slope. Concrete standpipe at the LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 3.8)]. FS Date: 6/7/2013						

Photo 1 of 3 : UCIP_SP_2018_32538_58994.jpg



Photo taken downstream of structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.51	Rating **	M	Issue No.	48 (cont)	
LM End	3.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.266187 °	38.266187 °	
				-121.641909 °	-121.641909 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32538						
DS_ID:21048						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find owner of crossing and determine if permit number is available.						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump on a pile structure in the stream. Service pole on the landside (LS) slope. Concrete standpipe at the LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 3.8)].						
FS Date: 6/7/2013						

LM Start	3.51	Rating **	M	Issue No.	48 (cont)
LM End	3.51	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_32538_58999.jpg



View of waterward side. Dense vegetation throughout waterward side. Walkway visible and support piles.

Photo 3 of 3 : UCIP_SP_2018_32538_58998.jpg



View of landward side--section of pipe exposed and Standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

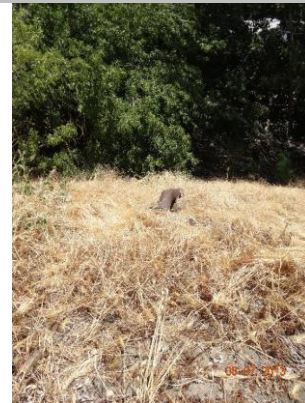
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.55	Rating **	M	Issue No.	15
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.266666 °	38.266857 °
				-121.641475 °	-121.641280 °
DWR ID	DWR_RD0501_03_s_2012_15				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up tree on landside slope.					

No Photos

LM Start	3.62	Rating **	M	Issue No.	49
LM End	3.62	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267490 °	38.267490 °
				-121.640749 °	-121.640749 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46768 DS_ID:21049 EP_NO: 1557 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears abandoned--wooden platform structure appears to be abandoned on waterward side. Small hole underneath pipe on landward side--unable to determine cause (rodent/pipe leak) Need to find owner of crossing to determine status. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: *ABANDONED* 6-inch irrigation discharge pipe of an unknown material through the levee, 2.5 feet below the crown. Pump in a pump house on the waterside (WS) slope. (Plans for the construction of two irrigation pumping plants, about 500 feet apart, and 6-inch discharge pipes through the levee authorized under Permit No. 1557, 1951 - Poultry Producers of Central California). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 3.9)]. FS Date: 6/7/2013					

Photo 1 of 3 : UCIP_SP_2018_46768_30382.jpg



View of landward side showing a small section of pipe exposed.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.62	Rating **	M	Issue No.	49 (cont)	
LM End	3.62	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.267490 °	38.267490 °	
				-121.640749 °	-121.640749 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:46768 DS_ID:21049 EP_NO: 1557 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears abandoned--wooden platform structure appears to be abandoned on waterward side. Small hole underneath pipe on landward side--unable to determine cause (rodent/pipe leak) Need to find owner of crossing to determine status. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: *ABANDONED* 6-inch irrigation discharge pipe of an unknown material through the levee, 2.5 feet below the crown. Pump in a pump house on the waterside (WS) slope. (Plans for the construction of two irrigation pumping plants, about 500 feet apart, and 6-inch discharge pipes through the levee authorized under Permit No. 1557, 1951 - Poultry Producers of Central California). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 3.9)]. FS Date: 6/7/2013						

Photo 2 of 3 : UCIP_SP_2018_46768_30381.jpg



Burrow activity visible underneath pipe alignment.

LM Start	3.62	Rating **	M	Issue No.	49 (cont)
LM End	3.62	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_46768_30380.jpg



Overview of waterward side with limited access to structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.62	Rating **	M	Issue No.	22
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.267485 °	38.267578 °
				-121.640667 °	-121.640507 °
DWR ID	DWR_RD0501_03_s_2012_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Thin trees to allow the visibility of the ground.					

No Photos

LM Start	3.65	Rating **	M	Issue No.	50
LM End	3.65	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267818 °	38.267818 °
				-121.640521 °	-121.640521 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32540 DS_ID:21050 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to properly inspect structure--limited access. Also unable to determine if structure is still in use. Levee logs indicate this crossing is abandoned. If structre is no longer used-how to prevent water from flowing through levee during flood season. If structure no longer in use owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: *ABANDONED* 66-inch by 66-inch reinforced concrete gravity drainage tunnel through the levee, 6.5 feet below the crown. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013					

Photo 1 of 3 : UCIP_SP_2018_32540_59007.jpg



View of narrow levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.65	Rating **	M	Issue No.	50 (cont)	
LM End	3.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.267818 °		38.267818 °
				-121.640521 °		-121.640521 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32540 DS_ID:21050 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to properly inspect structure--limited access. Also unable to determine if structure is still in use. Levee logs indicate this crossing is abandoned. If structre is no longer used-how to prevent water from flowing through levee during flood season. If structure no longer in use owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: *ABANDONED* 66-inch by 66-inch reinforced concrete gravity drainage tunnel through the levee, 6.5 feet below the crown. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013						

LM Start	3.65	Rating **	M	Issue No.	50 (cont)
LM End	3.65	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_32540_59006.jpg



View of large building structure located on landward side.

Photo 3 of 3 : UCIP_SP_2018_32540_59003.jpg



View of structure on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.66	Rating **	U	Issue No.	51
LM End	3.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268003 °	38.268003 °
				-121.640474 °	-121.640474 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50023 DS_ID:21051 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Unable to locate due to high traffic area and narrow levee crown. Assume condition is same as previous inspection. CVFPB should review this crossing to determine if WS needs to be capped off for flood season. (DWR UCIP - omagana)4/23/2015 Concrete deteriorating. Pipe open on both ends. Appears abandoned and if so should be done so properly. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 66-inch by 72-inch reinforced concrete drainage tunnel through the levee, 2.5 feet below the crown. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/22/2016					

Photo 1 of 3 : UCIP_SP_2018_50023_73942.jpg



Building on LS shoulder prevents access to LS of levee.

LM Start	3.66	Rating **	U	Issue No.	51 (cont)
LM End	3.66	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_50023_73941.jpg



Concrete tunnel and wingwalls visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.66	Rating **	U	Issue No.	51 (cont)	
LM End	3.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.268003 °		38.268003 °
				-121.640474 °		-121.640474 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50023 DS_ID:21051 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Unable to locate due to high traffic area and narrow levee crown. Assume condition is same as previous inspection. CVFPB should review this crossing to determine if WS needs to be capped off for flood season. (DWR UCIP - omagana)4/23/2015 Concrete deteriorating. Pipe open on both ends. Appears abandoned and if so should be done so properly. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 66-inch by 72-inch reinforced concrete drainage tunnel through the levee, 2.5 feet below the crown. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/22/2016						

Photo 3 of 3 : UCIP_SP_2018_50023_73940.jpg



Tunnel open on both ends.

LM Start	3.68	Rating **	M	Issue No.	3
LM End	3.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.268218 °	38.268218 °
				-121.640418 °	-121.640418 °
DWR ID	DWR_RD0501_03_f_2017_3				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.68	Rating **	M	Issue No.	52
LM End	3.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268278 °	38.268278 °
				-121.640377 °	-121.640377 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19662 DS_ID:21052 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to abandon structure properly--contact owner. Also if crossing is still in use--recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 36-inch grain conveyor culvert of an unknown material through the levee, 5 feet below the crown. Grain loading auger sleeved through the culvert. Grain loading system on a platform in the channel. (Plans for installing a 36-inch culvert to be used for housing a 14-inch screw-type bulk grain conveyor through the levee authorized under Permit No. 1503, 1959 - Bay Cities Transportation Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1950, (HLM 4.0)]. FS Date: 6/7/2013					

LM Start	3.68	Rating **	M	Issue No.	52 (cont)
LM End	3.68	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_19662_33420.jpg



View of waterward side. Pipe visible through dense vegetation.

Photo 2 of 3 : UCIP_SP_2018_19662_33418.jpg



Dense vegetation along the pipe alignment and throughout waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	3.70	Rating **	M	Issue No.	53 (cont)
LM End	3.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268570 °	38.268570 °
				-121.640408 °	-121.640408 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43524 DS_ID:21053 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 6-inch irrigation discharge pipe of an unknown material through the levee, 2.5 feet below the crown. Pump in a pump house on the waterside (WS) slope. (Plans for the construction of two irrigation pumping plants, about 500 feet apart, and 6-inch discharge pipes through the levee authorized under Permit No. 1557, 1951 - Poultry Producers of Central California). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 4.0)]. FS Date: 6/7/2013					

Photo 3 of 3 : UCIP_SP_2018_43524_33423.jpg



Close up of pipe along landward side.

LM Start	3.75	Rating **	M	Issue No.	33
LM End	3.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.269187 °	38.269187 °
				-121.640775 °	-121.640775 °
DWR ID	DWR_RD0501_03_f_2017_33				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.30	Rating **	M	Issue No.	54							
LM End	4.30	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		38.275862 °	38.275862 °								
			-121.638709 °	-121.638709 °								
DWR ID												
Comment Code												
Inspector Comment												
FS_ID:44876 DS_ID:21069 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Damage to levee shoulder. Crossing appears to be still be in use--need to contact owner to inform about maintenance issues. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe sleeved through a 24-inch pipe of an unknown material through the levee, 6.5 feet below the crown. Cutoff wall around the pipe at the waterside (WS) shoulder. Siphon breaker on the apex of the pipe at the landside (LS) shoulder. Pump in a pump house on the LS slope. (Plans for an 18-inch steel pipe to be sleeved through the 24-inch pipe with annular space grouted authorized under Permit No. 2496, 1957 - Reclamation District No. 501 [RD0501]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 4.6)]. FS Date: 6/7/2013												

LM Start	4.30	Rating **	M	Issue No.	54 (cont)
LM End	4.30	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_44876_33427.jpg



Line cracks along crown near crown hinge point on waterward side.

Photo 2 of 3 : UCIP_SP_2018_44876_33428.jpg



View of waterward slope. Dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.30	Rating **	M	Issue No.	54 (cont)	
LM End	4.30	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.275862 °		38.275862 °
				-121.638709 °		-121.638709 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44876 DS_ID:21069 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Damage to levee shoulder. Crossing appears to be still be in use--need to contact owner to inform about maintenance issues. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe sleeved through a 24-inch pipe of an unknown material through the levee, 6.5 feet below the crown. Cutoff wall around the pipe at the waterside (WS) shoulder. Siphon breaker on the apex of the pipe at the landside (LS) shoulder. Pump in a pump house on the LS slope. (Plans for an 18-inch steel pipe to be sleeved through the 24-inch pipe with annular space grouted authorized under Permit No. 2496, 1957 - Reclamation District No. 501 [RD0501]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 4.6)]. FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_44876_33430.jpg



View of landward side. Dry vegetation covers landward slope. Pump system located on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.31	Rating **	M	Issue No.	55
LM End	4.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275955 °	38.275955 °
				-121.638626 °	-121.638626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44746					
DS_ID:21107					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to verify type of abandonment.					
FIELD_STRUCT_DESC: *ABANDONED* 10-inch irrigation discharge pipe of an unknown material through the levee, 4.8 feet below the crown. 34-inch concrete standpipe on the landside (LS) toe. 10-inch hole in the standpipe where the abandoned pipe once connected.					
[Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 4.6)].					
FS Date: 4/23/2015					

Photo 1 of 2 : UCIP_SP_2018_44746_73944.jpg



34-inch diameter concrete standpipe at LS toe.

LM Start	4.31	Rating **	M	Issue No.	55 (cont)
LM End	4.31	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_44746_73943.jpg



10-inch diameter hole cut in side of standpipe where pipe once was installed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.47	Rating **	M	Issue No.	34
LM End	4.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277918 °	38.281507 °
				-121.637670 °	-121.641595 °
DWR ID	DWR_RD0501_03_f_2017_34				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove berry vines on landside slope and toe to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0501_171_34_20180305_00005.jpg



Remove berry vines on landside slope and toe to allow inspection and access.

LM Start	4.75	Rating **	M	Issue No.	56
LM End	4.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.281041 °	38.281041 °
				-121.640904 °	-121.640904 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32541 DS_ID:21071 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: --Contact owner--Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtances. Walkway and siphon breaker not found. FIELD_STRUCT_DESC: 12-inch reinforced concrete irrigation discharge pipe through the levee, 2.5 feet below the crown. Cutoff wall around the pipe at the center of the levee. Siphon breaker at the apex of the pipe on the shoulder. Pump on a pile structure in the stream. Walkway access to pump. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 5.1)]. FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_SP_2018_32541_59008.jpg



View of waterward side. Pump located on pile structure in stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.75	Rating **	M	Issue No.	56 (cont)	
LM End	4.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.281041 °	38.281041 °	
				-121.640904 °	-121.640904 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32541 DS_ID:21071 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: --Contact owner--Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtances. Walkway and siphon breaker not found. FIELD_STRUCT_DESC: 12-inch reinforced concrete irrigation discharge pipe through the levee, 2.5 feet below the crown. Cutoff wall around the pipe at the center of the levee. Siphon breaker at the apex of the pipe on the shoulder. Pump on a pile structure in the stream. Walkway access to pump. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 5.1)]. FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_SP_2018_32541_59009.jpg



View of landward side. Power source and control box on landward side.

LM Start	4.81	Rating **	M	Issue No.	35
LM End	4.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.281533 °	38.281533 °
				-121.641702 °	-121.641702 °
DWR ID	DWR_RD0501_03_f_2017_35				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove, thin, trim landside landscaping (grape vines, bushes, trees) to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0501_171_35_20180305_00006.jpg



Remove, thin, trim landside landscaping (grape vines, bushes, trees) to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	4.89	Rating **	M	Issue No.	36
LM End	4.89	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.282028 °	38.282028 °
				-121.643067 °	-121.643067 °
DWR ID	DWR_RD0501_03_f_2017_36				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim tree to at least 5 feet above levee slope to allow inspection and access.					

No Photos

LM Start	5.09	Rating **	M	Issue No.	37
LM End	5.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.284917 °	38.284917 °
				-121.643243 °	-121.643243 °
DWR ID	DWR_RD0501_03_f_2017_37				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim/thin large willow to allow inspection and access to landside slope and toe.					

No Photos

LM Start	5.11	Rating **	M	Issue No.	38
LM End	5.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285115 °	38.285115 °
				-121.643227 °	-121.643227 °
DWR ID	DWR_RD0501_03_f_2017_38				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick berry vines from landside slope and toe to allow inspection and access.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.43	Rating **	M	Issue No.	57
LM End	5.43	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288951 °	38.288951 °
				-121.644223 °	-121.644223 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44877 DS_ID:21055 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, 1.8 feet below the crown. Pump on a pile structure in the stream. Pipe exposed on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 5.9)]. FS Date: 4/23/2015					

Photo 1 of 2 : UCIP_SP_2018_44877_73946.jpg



Buried pipe exposed in trench 8-feet downstream from visible pipe.

LM Start	5.43	Rating **	M	Issue No.	57 (cont)
LM End	5.43	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_44877_73945.jpg



Cut in buried pipe on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.43	Rating **	M	Issue No.	58	
LM End	5.43	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.288950 °		38.288950 °
				-121.644183 °		-121.644183 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19666 DS_ID:21054 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to find owner and permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. Pump on a pile structure in the stream. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013						

LM Start	5.43	Rating **	M	Issue No.	58 (cont)
LM End	5.43	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_19666_33435.jpg



Overview of waterward side. Control box located near levee crown.

Photo 2 of 3 : UCIP_SP_2018_19666_33434.jpg



Structure visible through the dense vegetation. Limited access unable to inspect.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	5.43	Rating **	M	Issue No.	58 (cont)	
LM End	5.43	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.288950 °		38.288950 °
				-121.644183 °		-121.644183 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19666 DS_ID:21054 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to find owner and permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. Pump on a pile structure in the stream. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_19666_33433.jpg



View of pipe on landward side. Dry vegetation covers landward slope.

LM Start	6.14	Rating **	M	Issue No.	40
LM End	6.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.291563 °	38.291563 °
				-121.632068 °	-121.632068 °
DWR ID	DWR_RD0501_03_f_2017_40				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0501_171_40_20180305_00008.jpg



Trim/thin trees on waterside to allow inspection and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.17	Rating **	M	Issue No.	41
LM End	6.17	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.291460 °	38.291460 °
				-121.631455 °	-121.631455 °
DWR ID	DWR_RD0501_03_f_2017_41				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim/thin trees and landscaping to allow inspection and access to levee slope and toe.					

Photo 1 of 1 : SP_2018_RD0501_171_41_20180305_00009.jpg



Trim/thin trees and landscaping to allow inspection and access to levee slope and toe.

LM Start	6.39	Rating **	M	Issue No.	59	
LM End	6.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290373 °	38.290373 °	
				-121.627633 °	-121.627633 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32542 DS_ID:21059 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine status of crossing. Horizontal and vertical cracks present on stand pipe located on landward side. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 6 feet below the crown. 2-inch electrical conduit of an unknown material through the levee, at an unknown depth. Pump and gate valve on the waterside (WS) slope. Pipe exposed on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 6.9)]. FS Date: 6/13/2013						

Photo 1 of 3 : UCIP_SP_2018_32542_59022.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.39	Rating **	M	Issue No.	59 (cont)	
LM End	6.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290373°	38.290373°	
				-121.627633°	-121.627633°	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32542						
DS_ID:21059						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to determine status of crossing. Horizontal and vertical cracks present on stand pipe located on landward side. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 6 feet below the crown. 2-inch electrical conduit of an unknown material through the levee, at an unknown depth. Pump and gate valve on the waterside (WS) slope. Pipe exposed on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 6.9)].						
FS Date: 6/13/2013						

Photo 2 of 3 : UCIP_SP_2018_32542_59023.jpg



View of waterward side. Dense vegetation along levee slope.

LM Start	6.39	Rating **	M	Issue No.	59 (cont)
LM End	6.39	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_32542_59021.jpg



View of landward side. Pipe goes through levee and into concrete standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.40	Rating **	M	Issue No.	60
LM End	6.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356 °	38.290356 °
				-121.627488 °	-121.627488 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42118					
DS_ID:24054					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to determine encroachment number issued for pipe installation.					
FIELD_STRUCT_DESC: Natural gas pipeline of an unknown size or material through the levee at an angle, at an unknown depth. Markers visible on each side. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 6.9)].					
FS Date: 6/13/2013					

Photo 1 of 3 : UCIP_SP_2018_42118_72902.jpg



Markers visible on waterward side.

LM Start	6.40	Rating **	M	Issue No.	60 (cont)
LM End	6.40	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_42118_72901.jpg



Marker visible on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.40	Rating **	M	Issue No.	60 (cont)	
LM End	6.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.290356 °		38.290356 °
				-121.627488 °		-121.627488 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42118						
DS_ID:24054						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Need to determine encroachment number issued for pipe installation.						
FIELD_STRUCT_DESC: Natural gas pipeline of an unknown size or material through the levee at an angle, at an unknown depth. Markers visible on each side. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 6.9)].						
FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_42118_72900.jpg



Marker with contact information on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.40	Rating **	M	Issue No.	61 (cont)	
LM End	6.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.290351 °		38.290351 °
				-121.627452 °		-121.627452 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19668 DS_ID:21057 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing was operating during inspection; Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 1 of 2: 30-inch coated steel irrigation siphon pipe through the levee, 9.5 feet below the crown. Cutoff wall around the pipe at the center of the levee. Siphon breaker on the landside (LS) slope. Primer tanks on the LS slope. Pipe exposed on both slopes. (Plans for the installation of a 30-inch siphon pipe through the levee authorized under Permit No. 611, 1934 - Reclamation District No. 501 [RD0501]. Plans to replace a 30-inch siphon pipe through the levee authorized under Permit No. 2497, 1957 - RD0501). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 6.9)]. FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_19668_33442.jpg



Pipe visible through dense vegetation. Reminiscence of platform located on river.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.41	Rating **	M	Issue No.	62 (cont)	
LM End	6.41	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290345 °	38.290345 °	
				-121.627401 °	-121.627401 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32543 DS_ID:21058 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find pipe owner. Unable to determine status of crossing. FIELD_STRUCT_DESC: *ABANDONED* 8-inch coated steel irrigation discharge pipe through the levee, 2.7 feet below the crown. Siphon breaker at the apex of the pipe on the landside (LS) shoulder. Surge chamber at the LS toe. Pump near the waterside (WS) toe. Pipe exposed on the LS. 4-foot by 3-foot concrete platform on the LS toe. 3-inch electrical conduit of an unknown material runs along the 8-inch coated steel pipe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 6.9)]. FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_32543_59026.jpg



View of waterward side. Dense vegetation along levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.41	Rating **	M	Issue No.	63
LM End	6.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356 °	38.290356 °
				-121.627349 °	-121.627349 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44748					
DS_ID:21027					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 2 of 2: 4-inch coated steel irrigation siphon pipe through the levee, 7.3 feet below the crown. Pipe visible on the upstream side of the wooden platform on the waterside (WS) slope.					
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 6.9)].					
FS Date: 4/23/2015					

Photo 1 of 2 : UCIP_SP_2018_44748_73948.jpg



4-inch pipe connected to smaller galvanized iron pipe on WS slope.

LM Start	6.41	Rating **	M	Issue No.	63 (cont)
LM End	6.41	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_44748_73947.jpg



Pipe visible on upstream side of wooden platform on the WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.61	Rating **	M	Issue No.	39
LM End	6.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.290313 °	38.290313 °
				-121.623785 °	-121.623785 °
DWR ID	DWR_RD0501_03_f_2016_39				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Evidence of significant rodent activity at this location. Exterminate the rodents and backfill holes.					

Photo 1 of 1 : SP_2018_RD0501_171_39_20180305_00007.jpg



Evidence of significant rodent activity at this location. Exterminate the rodents and backfill holes.

LM Start	6.81	Rating **	M	Issue No.	64
LM End	6.81	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290130 °	38.290130 °
				-121.620168 °	-121.620168 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32544 DS_ID:21060 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway missing but platform remain on the waterward side. FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 6.5 feet below the crown. Switch panel on the waterside (WS) slope. Pump on a pile structure in the stream. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 7.3)]. FS Date: 6/13/2013					

Photo 1 of 3 : UCIP_SP_2018_32544_59034.jpg



View of waterward side. Support piles, conduit line, and pump visible on waterward side. Dense vegetation covers waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	6.81	Rating **	M	Issue No.	64 (cont)	
LM End	6.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.290130	°	38.290130
				-121.620168	°	-121.620168
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32544 DS_ID:21060 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway missing but platform remain on the waterward side. FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 6.5 feet below the crown. Switch panel on the waterside (WS) slope. Pump on a pile structure in the stream. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 7.3)]. FS Date: 6/13/2013						

Photo 2 of 3 : UCIP_SP_2018_32544_59033.jpg



View of standpipes located on landward side.

LM Start	6.81	Rating **	M	Issue No.	64 (cont)
LM End	6.81	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_32544_59036.jpg



Dry vegetation throughout the landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	7.22	Rating **	M	Issue No.	65
LM End	7.22	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.287837 °	38.287837 °
				-121.613453 °	-121.613453 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:46834

DS_ID:21061

EP_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 11/19/2015 DWR Inspector (H. Phillips) coordinated with LMA superintendent and the owner for this crossing is Walter Koeing, APN No. 042220040. According to LMA superintendent owner installed filter system with fence on landward side and fence around pump in 2012. Pipe not replaced in 2012, this pipe would be a good candidate for internal inspection since the installation date for this crossing was recorded as 1946.06/13/2013 Conduit visible on landward side; new gate on WS toe; filtration system with security fence; Pipe has been upgraded--need permit authorizing work and owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.

FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, 3.7 feet below the crown. Siphon breaker and service pole on the landside (LS) slope. 2-inch electrical conduit of an unknown material runs parallel to the 8-inch steel pipe. Pump in a pump house on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 8.0)]. FS Date: 6/13/2013

LM Start	7.22	Rating **	M	Issue No.	65 (cont)
LM End	7.22	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_46834_33471.jpg



Overview of levee crown.

Photo 2 of 3 : UCIP_SP_2018_46834_33468.jpg



Pipe connection after pump station.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

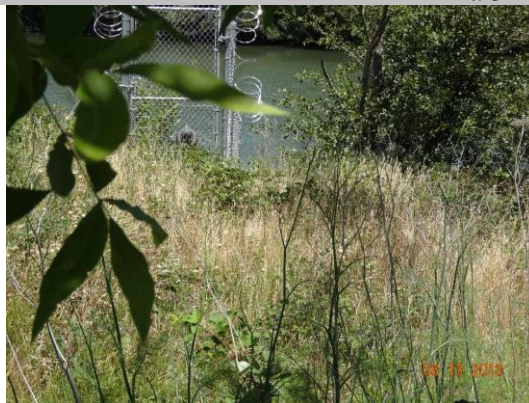
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	7.22	Rating **	M	Issue No.	65 (cont)	
LM End	7.22	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.287837 °	38.287837 °	
				-121.613453 °	-121.613453 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:46834 DS_ID:21061 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/19/2015 DWR Inspector (H. Phillips) coordinated with LMA superintendent and the owner for this crossing is Walter Koeing, APN No. 042220040. According to LMA superintendent owner installed filter system with fence on landward side and fence around pump in 2012. Pipe not replaced in 2012, this pipe would be a good candidate for internal inspection since the installation date for this crossing was recorded as 1946.06/13/2013 Conduit visible on landward side; new gate on WS toe; filtration system with security fence; Pipe has been upgraded--need permit authorizing work and owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, 3.7 feet below the crown. Siphon breaker and service pole on the landside (LS) slope. 2-inch electrical conduit of an unknown material runs parallel to the 8-inch steel pipe. Pump in a pump house on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 8.0)]. FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_46834_33467.jpg



Pipe section near toe is protected by security fence.

LM Start	7.55	Rating **	U	Issue No.	42
LM End	7.55	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.286653 °	38.286653 °
				-121.608417 °	-121.608417 °
DWR ID	DWR_RD0501_03_f_2017_42				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove/thin landscaping to allow inspection and access to landside slope and toe.					

Photo 1 of 1 : SP_2018_RD0501_171_42_20180305_00010.jpg



Remove/thin landscaping to allow inspection and access to landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

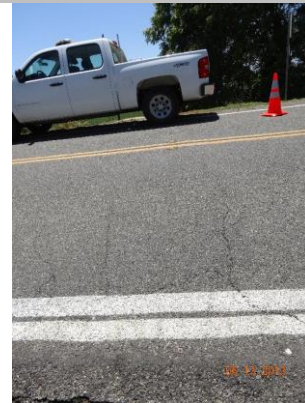
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	7.58	Rating **	M	Issue No.	43
LM End	7.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.286222 °	38.286222 °
				-121.608127 °	-121.608127 °
DWR ID	DWR_RD0501_03_f _ 2017_43				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.59	Rating **	M	Issue No.	66	
LM End	7.59	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.286153 °	38.286153 °	
				-121.607959 °	-121.607959 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50025 DS_ID:21063 EP_NO: 11812 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent no levee damage appears to be present along pipe alignment. There appears to be an erosion site adjacent to this crossing. Need to coordinate with DWR Inspectors. (DWR UCIP - omagana)6/07/2013 Open cut section of levee on LS slope 8 foot wide--repair work needed. Abandoned pump on waterward berm. Dense vegetation--Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances on waterward side. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 14-inch coated steel irrigation discharge pipe and a 1.25-inch electrical conduit of an unknown material through the levee, both 3 feet below the crown. Cutoff wall around the pipe and conduit at the center of the levee. Siphon breaker at the apex of the pipe on the landside (LS) shoulder. Slant pump on the waterside (WS) slope. Discharge structure at the LS toe. Rock revetment on the WS slope. (Plans to replace a 14-inch irrigation pipe through the levee crown and a slant pump on the riverbank authorized under Permit No. 11812, 1976 - Harry H. Rasmussen). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/22/2016						

Photo 1 of 3 : UCIP_SP_2018_50025_59039.jpg



View of levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	7.59	Rating **	M	Issue No.	66 (cont)	
LM End	7.59	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.286153 °	38.286153 °	
				-121.607959 °	-121.607959 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50025 DS_ID:21063 EP_NO: 11812 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent no levee damage appears to be present along pipe alignment. There appears to be an erosion site adjacent to this crossing. Need to coordinate with DWR Inspectors. (DWR UCIP - omagana)6/07/2013 Open cut section of levee on LS slope 8 foot wide--repair work needed. Abandoned pump on waterward berm. Dense vegetation--Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances on waterward side. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 14-inch coated steel irrigation discharge pipe and a 1.25-inch electrical conduit of an unknown material through the levee, both 3 feet below the crown. Cutoff wall around the pipe and conduit at the center of the levee. Siphon breaker at the apex of the pipe on the landside (LS) shoulder. Slant pump on the waterside (WS) slope. Discharge structure at the LS toe. Rock revetment on the WS slope. (Plans to replace a 14-inch irrigation pipe through the levee crown and a slant pump on the riverbank authorized under Permit No. 11812, 1976 - Harry H. Rasmussen). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/22/2016						

LM Start	7.59	Rating **	M	Issue No.	66 (cont)
LM End	7.59	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_50025_59042.jpg



View of WS--pump located at the berm edge.

Photo 3 of 3 : UCIP_SP_2018_50025_75668.jpg



View of WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

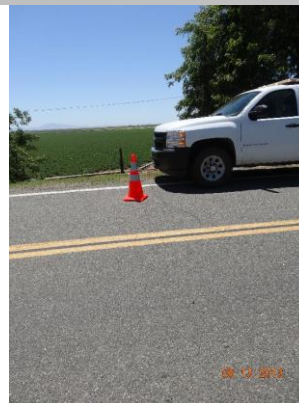
Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	7.60	Rating **	M	Issue No.	67	
LM End	7.60	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.286134 °	38.286134 °	
				-121.607920 °	-121.607920 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32546						
DS_ID:21064						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Debris (pipe section) located on waterward berm.						
Dense vegetation limits the inspector's visibility to identify signs of pipe						
failure (leaks) along the waterward slope. Recommend removing						
vegetation along pipe alignment to conduct proper inspection of						
structure and appurtenances.						
FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through						
the levee, 2.7 feet below the crown. Pump in a pump house at the						
landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005.						
USACE Sacramento O&M Manual 105, April 1959, (HLM 8.2)].						
FS Date: 6/13/2013						

LM Start	7.60	Rating **	M	Issue No.	67 (cont)
LM End	7.60	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_32546_59047.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP_SP_2018_32546_59048.jpg



View of waterward side--dense vegetation limits visibility of 8-inch steel pipe. Pump belongs to another crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	03/13/2018 03/13/2018	Keith Millard

LM Start	7.60	Rating **	M	Issue No.	67 (cont)	
LM End	7.60	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.286134 °		38.286134 °
				-121.607920 °		-121.607920 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32546						
DS_ID:21064						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Debris (pipe section) located on waterward berm.						
Dense vegetation limits the inspector's visibility to identify signs of pipe						
failure (leaks) along the waterward slope. Recommend removing						
vegetation along pipe alignment to conduct proper inspection of						
structure and appurtenances.						
FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through						
the levee, 2.7 feet below the crown. Pump in a pump house at the						
landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005.						
USACE Sacramento O&M Manual 105, April 1959, (HLM 8.2)].						
FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_32546_59049.jpg



View of waterward side looking up at levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 04 Sutter Slough			Right	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/13/2018 - 3/13/2018			
DWR Inspector	Keith Millard			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	0.54	Rating **	M	Issue No.	18							
LM End	0.54	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		38.278848 °	38.278848 °								
			-121.601216 °	-121.601216 °								
DWR ID												
Comment Code												
Inspector Comment												
FS_ID:32547 DS_ID:21080 EP_NO: 18135 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Cracks visible on levee crown could be associated with pipe vibration or settlement. Burrow activity on landward side. Recommend removing vegetation along pipe alignment on landward side to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch galvanized iron irrigation discharge pipe through the levee, 3.5 feet below the crown. Cutoff wall around the pipe on the landside (LS) shoulder. Slant pump and pump house on the waterside (WS) slope. Concrete standpipe and power pole at the LS toe. Service pole on the LS slope. Pipe exposed on both slopes. Two crossings are nearby: A 10-inch pipe and an 8-inch pipe crossings are approximately 5 feet apart. (Plans to replace an existing pump and pipeline with a new pump and pipeline authorized under Permit No. 2446, 1957 - Doris R. Geary. Plans to replace an existing water pipe with a 10-inch steel pipe through the levee authorized under Permit No. 18135, 2006 - Charlotte Gilmore). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013												

Photo 1 of 3 : UCIP_SP_2018_32547_59050.jpg



View of levee crown.

LM Start	0.54	Rating **	M	Issue No.	18 (cont)
LM End	0.54	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_32547_59051.jpg



Overview of waterward side--2 crossings located within 5 feet.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	0.54	Rating **	M	Issue No.	18 (cont)	
LM End	0.54	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.278848 °	38.278848 °	
				-121.601216 °	-121.601216 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32547 DS_ID:21080 EP_NO: 18135 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Cracks visible on levee crown could be associated with pipe vibration or settlement. Burrow activity on landward side. Recommend removing vegetation along pipe alignment on landward side to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch galvanized iron irrigation discharge pipe through the levee, 3.5 feet below the crown. Cutoff wall around the pipe on the landside (LS) shoulder. Slant pump and pump house on the waterside (WS) slope. Concrete standpipe and power pole at the LS toe. Service pole on the LS slope. Pipe exposed on both slopes. Two crossings are nearby: A 10-inch pipe and an 8-inch pipe crossings are approximately 5 feet apart. (Plans to replace an existing pump and pipeline with a new pump and pipeline authorized under Permit No. 2446, 1957 - Doris R. Geary. Plans to replace an existing water pipe with a 10-inch steel pipe through the levee authorized under Permit No. 18135, 2006 - Charlotte Gilmore). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/7/2013						

Photo 3 of 3 : UCIP_SP_2018_32547_59053.jpg



Slant pump located on waterward side. 10 inch pipe connects at an angle to tar coated pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	0.54	Rating **	M	Issue No.	19
LM End	0.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278831 °	38.278831 °
				-121.601213 °	-121.601213 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32548
DS_ID:21079
EP_NO: 2446
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Permit documents indicate that pipe does not appear to be properly grouted. Crossing needs to be properly abandoned per CVFPB Title 23--need to find owner. Also recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation discharge pipe through the levee, 6 feet below the crown. Pump on the waterside (WS). Steel plate welded on the WS end. 10-inch steel pipe approximately 5 feet downstream. (Plans to replace an existing pump and pipeline with a new pump and pipeline authorized under Permit No. 2446, 1957 - Doris R. Geary). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.6)].
FS Date: 6/13/2013

LM Start	0.54	Rating **	M	Issue No.	19 (cont)
LM End	0.54	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_32548_59057.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP_SP_2018_32548_59058.jpg



Overview of waterward side. Two crossings, 10 inch and 8 inch pipelines, less than 5 feet apart.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	0.54	Rating **	M	Issue No.	19 (cont)
LM End	0.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278831 °	38.278831 °
				-121.601213 °	-121.601213 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32548 DS_ID:21079 EP_NO: 2446 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Permit documents indicate that pipe does not appear to be properly grouted. Crossing needs to be properly abandoned per CVFPB Title 23--need to find owner. Also recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation discharge pipe through the levee, 6 feet below the crown. Pump on the waterside (WS). Steel plate welded on the WS end. 10-inch steel pipe approximately 5 feet downstream. (Plans to replace an existing pump and pipeline with a new pump and pipeline authorized under Permit No. 2446, 1957 - Doris R. Geary). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 0.6)]. FS Date: 6/13/2013					

Photo 3 of 3 : UCIP_SP_2018_32548_59056.jpg



Pump house is associated with abandoned 8 inch pipe.

LM Start	0.84	Rating **	M	Issue No.	11
LM End	0.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.274615 °	38.274615 °
				-121.602718 °	-121.602718 °
DWR ID	DWR_RD0501_04_f_2017_11				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick blackberries at landside toe to allow inspection and access.					

Photo 1 of 1 : SP_2018_RD0501_172_11_20180313_00030.jpg



Thick blackberries should be removed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	0.99	Rating **	M	Issue No.	12
LM End	0.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.272650 °	38.272650 °
				-121.603960 °	-121.603960 °
DWR ID	DWR_RD0501_04_f_2017_12				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Trim fig and other trees to allow inspection and access to landside slope and toe.					

Photo 1 of 1 : SP_2018_RD0501_172_12_20180305_00001.jpg



Trim fig and other trees to allow inspection and access to landside slope and toe.

LM Start	1.04	Rating **	U	Issue No.	20
LM End	1.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.272053 °	38.272053 °
				-121.604176 °	-121.604176 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50021 DS_ID:21072 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Assume conditions at this crossing have remained the same--pipe wall is still deteriorating. Unable to locate crossing due to dense vegetation along both WS and LS slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)6/13/2013 Pipe has deteriorated--holes present on landward side. Need to contact owner. Unable to determine if crossing is still being used. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation discharge pipe through the levee, 2.7 feet below the crown. Pump on the waterside (WS). Steel plate welded on the WS end. Unable to confirm if plate is still present in 2016. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 1.1)]. FS Date: 8/22/2016					

Photo 1 of 3 : UCIP_SP_2018_50021_59065.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.04	Rating **	U	Issue No.	20 (cont)	
LM End	1.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.272053 °	38.272053 °	
				-121.604176 °	-121.604176 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50021 DS_ID:21072 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Assume conditions at this crossing have remained the same--pipe wall is still deteriorating. Unable to locate crossing due to dense vegetation along both WS and LS slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)6/13/2013 Pipe has deteriorated--holes present on landward side. Need to contact owner. Unable to determine if crossing is still being used. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation discharge pipe through the levee, 2.7 feet below the crown. Pump on the waterside (WS). Steel plate welded on the WS end. Unable to confirm if plate is still present in 2016. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 1.1)]. FS Date: 8/22/2016						

LM Start	1.04	Rating **	U	Issue No.	20 (cont)
LM End	1.04	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_50021_59066.jpg



View of levee crown at crossing.

Photo 3 of 3 : UCIP_SP_2018_50021_59064.jpg



High vegetation along waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.08	Rating **	M	Issue No.	21
LM End	1.08	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.271400 °	38.271400 °
				-121.604368 °	-121.604368 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32550					
DS_ID:21073					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Unable to determine if the pipe goes through the levee, need As-Built drawings; Need owner information.					
FIELD_STRUCT_DESC: 1.5-inch communications conduit of an unknown material through the levee, 2 feet below the crown. Pole and anchor on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 6/13/2013					

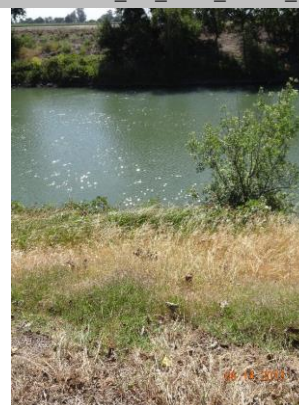
Photo 1 of 3 : UCIP_SP_2018_32550_59068.jpg



Levee crown at crossing.

LM Start	1.08	Rating **	M	Issue No.	21 (cont)
LM End	1.08	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_32550_59067.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.08	Rating **	M	Issue No.	21 (cont)	
LM End	1.08	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.271400 °	38.271400 °	
				-121.604368 °	-121.604368 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32550						
DS_ID:21073						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Unable to determine if the pipe goes through the levee. need As-Built drawings; Need owner information.						
FIELD_STRUCT_DESC: 1.5-inch communications conduit of an unknown material through the levee, 2 feet below the crown. Pole and anchor on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_32550_59069.jpg



View of landward side--power pole and guy wire under trees.

LM Start	1.17	Rating **	M	Issue No.	22
LM End	1.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270171 °	38.270171 °
				-121.604403 °	-121.604403 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32551 DS_ID:21074 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to determine status of crossing. Pipe visible on waterward side--could be the pipe that was supposed to be removed under permit number 13983 (1985). Also present is a 1.5 inch conduit along the 8 inch pipe. Need to coordinate with owner. FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, 6.4 feet below the crown. Pump on a pile structure in the stream. Service pole on the landside (LS) slope. (8-inch pipe should have been removed and replaced with a 12-inch pipe authorized under Permit No. 13983, 1984 - Mrs. John Thomas). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 1.3)]. FS Date: 6/13/2013					

Photo 1 of 3 : UCIP_SP_2018_32551_59070.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

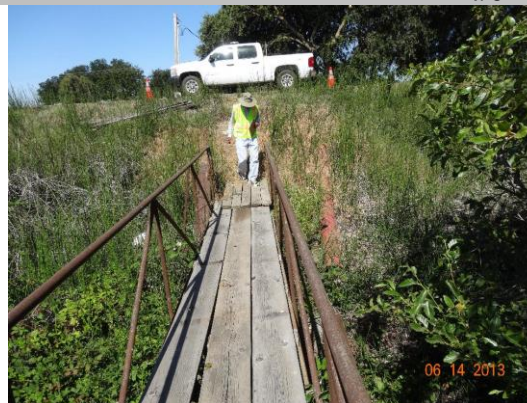
Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.17	Rating **	M	Issue No.	22 (cont)	
LM End	1.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.270171 °	38.270171 °	
				-121.604403 °	-121.604403 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32551						
DS_ID:21074						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Unable to determine status of crossing. Pipe visible on waterward side--could be the pipe that was supposed to be removed under permit number 13983 (1985). Also present is a 1.5 inch conduit along the 8 inch pipe. Need to coordinate with owner.						
FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, 6.4 feet below the crown. Pump on a pile structure in the stream. Service pole on the landside (LS) slope. (8-inch pipe should have been removed and replaced with a 12-inch pipe authorized under Permit No. 13983, 1984 - Mrs. John Thomas). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 1.3)].						
FS Date: 6/13/2013						

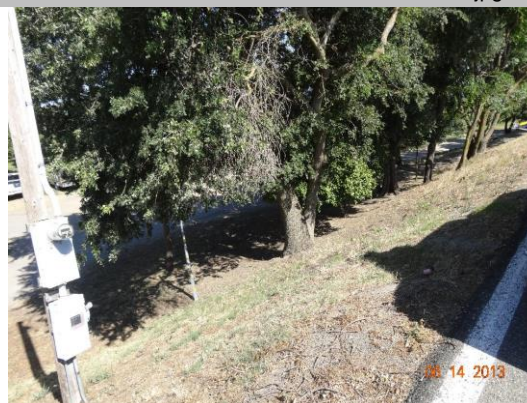
LM Start	1.17	Rating **	M	Issue No.	22 (cont)
LM End	1.17	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_32551_59072.jpg



Abandoned pipe to the right of walkway.

Photo 3 of 3 : UCIP_SP_2018_32551_59071.jpg



View of landward side--power pole on slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

**Flood Control Project Maintenance
Levee Inspections**

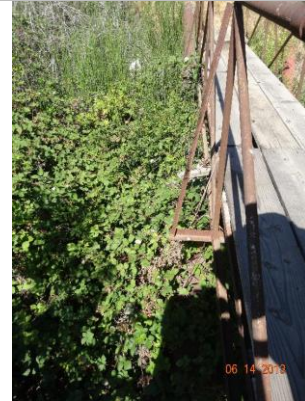
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.17	Rating **	M	Issue No.	23 (cont)
LM End	1.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270156 °	38.270156 °
				-121.604403 °	-121.604403 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32552 DS_ID:21095 EP_NO: 13983 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned pipe was to be removed during the installation of new 12-inch pipe crossing. Need to contact pipe owner. Unable to confirm crossing--need additional records for crossing. FIELD_STRUCT_DESC: 12-inch coated steel irrigation discharge pipe through the levee, 5 feet below the crown. Cutoff wall around the pipe at the center of the levee. Siphon breaker at the apex of the pipe on the landside (LS) shoulder. Pump on a pile structure in the stream. Service pole on the LS slope. Pipe connects to a 10-inch steel pipe along the LS slope at the shoulder and similarly to a preexisting 8-inch pipe on the waterside (WS). (8-inch pipe should have been removed and replaced with a 12-inch pipe authorized under Permit No. 13983, 1984 - Mrs. John Thomas). FS Date: 6/13/2013					

Photo 3 of 3 : UCIP_SP_2018_32552_59075.jpg



Pipe suspended on waterward side along walkway.

LM Start	1.64	Rating **	M	Issue No.	14
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.263587 °	38.262028 °
				-121.602068 °	-121.601688 °
DWR ID	DWR_RD0501_04_f_2017_14				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim trees and undergrowth to allow inspection and access to landside slope and toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.74	Rating **	M	Issue No.	24	
LM End	1.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.262165 °	38.262165 °	
				-121.601691 °	-121.601691 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44471 DS_ID:21076 EP_NO: 16906 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing was running during site inspeciton. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch coated steel irrigation discharge pipe through the levee, 2.2 feet below the crown. Pump on a pile structure in the stream. Concrete standpipe on the landside (LS). Pipe exposed on the LS slope. Two conduits present: 3-inch conduit is disconnected, and 1.5-inch electrical conduit appears to be active. (Plans to replace an existing 10-inch pipe with a 14-inch irrigation pipe through the levee authorized under Permit No. 16906, 1998 - Neil R. Hamilton/DCC Engineering Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/13/2013						

Photo 1 of 3 : UCIP_SP_2018_44471_33491.jpg



Waterward side-pipe along slope.

LM Start	1.74	Rating **	M	Issue No.	24 (cont)
LM End	1.74	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_44471_33495.jpg



Pipe section reduced at the waterward side daylight.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.74	Rating **	M	Issue No.	24 (cont)	
LM End	1.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.262165 °	38.262165 °	
				-121.601691 °	-121.601691 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44471 DS_ID:21076 EP_NO: 16906 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing was running during site inspeciton. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch coated steel irrigation discharge pipe through the levee, 2.2 feet below the crown. Pump on a pile structure in the stream. Concrete standpipe on the landside (LS). Pipe exposed on the LS slope. Two conduits present: 3-inch conduit is disconnected, and 1.5-inch electrical conduit appears to be active. (Plans to replace an existing 10-inch pipe with a 14-inch irrigation pipe through the levee authorized under Permit No. 16906, 1998 - Neil R. Hamilton/DCC Engineering Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_44471_33496.jpg



Overview of waterward side.

LM Start	1.83	Rating **	M	Issue No.	8
LM End	1.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.260830 °	38.260830 °
				-121.601502 °	-121.601502 °
DWR ID	DWR_RD0501_04_s_2012_8				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Large fig trees should be thinned and trimmed to allow inspection and access to levee slope and toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.86	Rating **	M	Issue No.	25
LM End	1.86	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.260407 °	38.260407 °
				-121.601365 °	-121.601365 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32553 DS_ID:21077 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 8 feet below the crown. 2-inch electrical conduit of an unknown material through the levee, at an unknown depth. Siphon breaker on the landside (LS) slope. Pump on a pile structure in the stream. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.0)]. FS Date: 6/13/2013					

Photo 1 of 3 : UCIP_SP_2018_32553_59082.jpg



View of levee crown at crossing.

LM Start	1.86	Rating **	M	Issue No.	25 (cont)
LM End	1.86	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_32553_59081.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

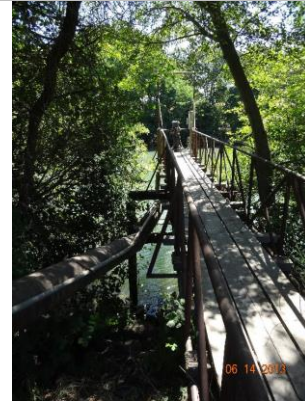
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	1.86	Rating **	M	Issue No.	25 (cont)	
LM End	1.86	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.260407 °	38.260407 °	
				-121.601365 °	-121.601365 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32553 DS_ID:21077 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 8 feet below the crown. 2-inch electrical conduit of an unknown material through the levee, at an unknown depth. Siphon breaker on the landside (LS) slope. Pump on a pile structure in the stream. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.0)]. FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_32553_59080.jpg



Waterward side--catwalk, conduit line, pump, and support piles.

LM Start	2.15	Rating **	M	Issue No.	13
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.256275 °	38.255990 °
				-121.600933 °	-121.601015 °
DWR ID	DWR_RD0501_04_s_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Thin out the trees along levee mile 2.15-2.17 and trim them up at least 5-foot above the ground.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	2.16	Rating **	M	Issue No.	26
LM End	2.16	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256225 °	38.256225 °
				-121.600903 °	-121.600903 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32863
DS_ID:21078
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Broken concrete box on landward slope. Disturbed soil on waterward slope--unable to determine section disturbed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterwar slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: *ABANDONED* 6-inch and working 6-inch steel irrigation discharge pipes through the levee, 2.5 feet and 5 feet below the crown, respectively. Pipes are within 5 feet of each other. 1.5-inch electrical conduit of an unknown material through the levee, at an unknown depth. Pump in a pump house on the waterside (WS) slope.
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.3)].
FS Date: 6/13/2013

LM Start	2.16	Rating **	M	Issue No.	26 (cont)
LM End	2.16	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_32863_59483.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP_SP_2018_32863_59484.jpg



View of waterward side with dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	03/13/2018 03/13/2018	Keith Millard

LM Start	2.16	Rating **	M	Issue No.	26 (cont)	
LM End	2.16	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.256225 °	38.256225 °	
				-121.600903 °	-121.600903 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32863 DS_ID:21078 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Broken concrete box on landward slope. Disturbed soil on waterward slope--unable to determine section disturbed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterwar slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: *ABANDONED* 6-inch and working 6-inch steel irrigation discharge pipes through the levee, 2.5 feet and 5 feet below the crown, respectively. Pipes are within 5 feet of each other. 1.5-inch electrical conduit of an unknown material through the levee, at an unknown depth. Pump in a pump house on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 105, April 1959, (HLM 2.3)]. FS Date: 6/13/2013						

Photo 3 of 3 : UCIP_SP_2018_32863_59480.jpg



View of waterward side--conduit, pump, control panel, and pipe. Soil piled on right corner of photo--excavation?

LM Start	2.17	Rating **	M	Issue No.	17
LM End	2.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.255987 °	38.254465 °
				-121.600993 °	-121.601450 °
DWR ID	DWR_RD0501_04_s_2017_17				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landside landscaping should be thinned and managed to allow inspection and access to levee slope and to and 10' easement.					

Photo 1 of 1 : SP_2018_RD0501_172_17_20180305_00002.jpg



Landside landscaping should be thinned and managed to allow inspection and access to levee slope and to and 10' easement.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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